

chain nodes :

6 7 8 9 10 11

ring nodes :

1 2 3 4 5

chain bonds :

1-6 2-10 5-11 6-7 7-8 8-9

ring bonds :

1-2 1-5 2-3 3-4 4-5

exact/norm bonds :

1-2 1-5 1-6 2-3 2-10 3-4 4-5 5-11 6-7 8-9

exact bonds :

7-8

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:Atom 10:CLASS
11:CLASS

=> d his

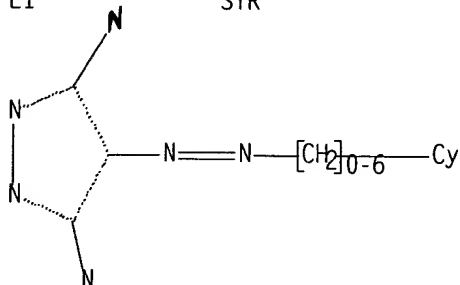
(FILE 'HOME' ENTERED AT 11:05:46 ON 15 MAY 2003)

FILE 'REGISTRY' ENTERED AT 11:05:52 ON 15 MAY 2003

L1 STRUCTURE UPLOADED
L2 10 S L1
L3 175 S L1 FULL

=> d que 13 stat

L1 STR



Structure attributes must be viewed using STN Express query preparation.

L3 175 SEA FILE=REGISTRY SSS FUL L1

100.0% PROCESSED 477 ITERATIONS
SEARCH TIME: 00.00.02

175 ANSWERS

=> fil capl

FILE 'CAPLUS' ENTERED AT 11:07:02 ON 15 MAY 2003

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 15 May 2003 VOL 138 ISS 20

FILE LAST UPDATED: 14 May 2003 (20030514/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'FIONA' IS DEFAULT FORMAT FOR 'CAPLUS' FILE

=> s 13

L4 87 L3

=> d 1-87 ibib iabs hitstr

L4 ANSWER 1 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2003:241994 CAPLUS

DOCUMENT NUMBER: 138:271672

TITLE: Preparation of hydrazonodiazinopyrazoles with antiproliferative activity.

INVENTOR(S): Zhang, Zaihui; Daynard, Timothy Scott; Sviridov, Sergei V.; Chafeev, Mikhail A.; Wang, Shisen

PATENT ASSIGNEE(S): Can.

SOURCE: U.S. Pat. Appl. Publ. 70 pp., Cont.-in-part of U.S. Ser. No. 747,563.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

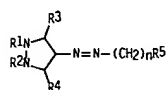
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003060453	A1	20030327	US 2002-77238	20020215
US 6214813	B1	20010410	US 2000-544908	20000407
US 2002042501	A1	20020411	US 2000-747563	20001222
US 6436915	B2	20020820		

PRIORITY APPLN. INFO.: US 2000-544908 A2 20000407
US 2000-747563 A2 20001222

OTHER SOURCE(S): MARPAT 138:271672

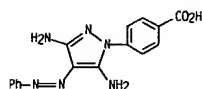
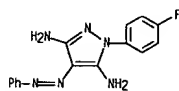
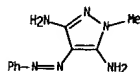
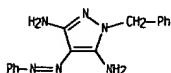
GRAPHIC IMAGE:



ABSTRACT:

Pharmaceutical compns. comprising title compds. [I: n = 0-5; R1, R2 = H, alkyl, aryl, aralkyl, COR6; R1, R2 may form double bond; R3, R4 = N(R7)2, NR7COR6; R5 = (substituted) aryl, heterocyclyl; R6 = H, alkyl, aryl, aralkyl, heterocyclyl, heterocyclylalkyl; R7 = H, alkyl, haloalkyl, aryl, aralkyl, heterocyclyl, heterocyclylalkyl, R8OR9; R8 = alkylene; R9 = H, alkyl], are claimed (no data). Thus, p-anisidine in aq. HCl was treated with aq. NaNO2 under ice cooling; the resulting mixt. was added to malononitrile in aq. MeOH to give 70% yellow solid. The latter was refluxed 3 h with N2H4 in EtOH to give 4-[(4-methoxyphenyl)hydrazone]-4H-pyrazole-3,5-diamine. Numerous generic I drug formulations are given.

L4 ANSWER 1 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 366802-74-6 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 1-(4-fluorophenyl)-4-(phenylazo)- (9C1) (CA INDEX NAME)RN 366802-84-8 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 1-methyl-4-(phenylazo)- (9C1) (CA INDEX NAME)RN 503182-81-8 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)-1-(phenylmethyl)- (9C1) (CA INDEX NAME)RN 503182-82-9 CAPLUS
CN L-Proline, 1-[2-[3,5-diamino-4-(3-pyridinylazo)-1H-pyrazol-1-yl]-2-oxoethyl]-, methyl ester (9C1) (CA INDEX NAME)Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 1 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

IT 70649-20-6P 136773-54-1P 366802-72-4P

366802-73-5P 366802-74-6P 366802-84-8P

503182-81-8P 503182-82-9P 503183-51-5P

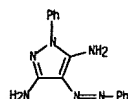
503183-64-0P

RI: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of hydrazonodiazinopyrazoles with antiproliferative activity)

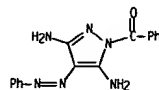
RN 70649-20-6 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 1-phenyl-4-(phenylazo)- (9C1) (CA INDEX NAME)



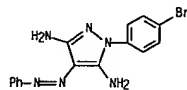
RN 136773-54-1 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 1-benzoyl-4-(phenylazo)- (9C1) (CA INDEX NAME)



RN 366802-72-4 CAPLUS

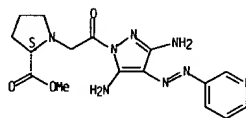
CN 1H-Pyrazole-3,5-diamine, 1-(4-bromophenyl)-4-(phenylazo)- (9C1) (CA INDEX NAME)



RN 366802-73-5 CAPLUS

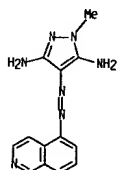
CN Benzoic acid, 4-[3,5-diamino-4-(phenylazo)-1H-pyrazol-1-yl]- (9C1) (CA INDEX NAME)

L4 ANSWER 1 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



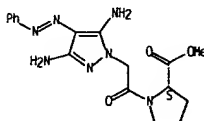
RN 503183-51-5 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-(5-isquinolinylazo)-1-methyl- (9C1) (CA INDEX NAME)



RN 503183-64-0 CAPLUS

CN L-Proline, 1-[[3,5-diamino-4-(phenylazo)-1H-pyrazol-1-yl]acetyl]-, methyl ester (9C1) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 2 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2003:4395 CAPLUS

TITLE: Reactions with heterocyclic azidines: new routes for the synthesis of novel azolo[1,5-a]pyridine, benzo[4,5]imidazo[1,2-a]pyridine, some pyridine, pyran and pyrazole derivatives containing the antipyrine moiety

AUTHOR(S): Elcaati, Tarek M. Abu

CORPORATE SOURCE: Faculty of Specific Education, New Damietta, Egypt

SOURCE: Acta Chioica Slovenica (2002), 49(4), 721-732

CODEN: ACSLE7; ISSN: 1318-0207

PUBLISHER: Slovenian Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

ABSTRACT:

Some novel pyrazolo[1,5-a]pyridines, 1,2,4-triazolo[1,5-a]pyridine, and benzo[4,5]imidazo[1,2-a]pyridine could be synthesized by reacting 3-diethylamino-2-(1,5-dimethyl-3-oxo-2-phenyl-2,3-dihydro-1H-pyrazole-4-carbonyl)acrylonitrile (I) with 5-amino-3,4-substituted-1H-pyrazoles, 3-amino-1,2,4-triazole, and 2-aminobenzimidazole, resp. The reaction of I with 2-benzimidazolylacetonitrile afforded the benzo[4,5]imidazo[1,2-a]pyridine. On the other hand, the reaction of I with hydrazine, phenylhydrazine, malononitrile dimer, and Et cyanoacetate dimer produced pyrazole, pyridine, and pyrone derivs.

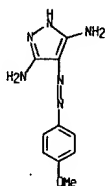
IT 6975-75-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(reactions of 3-diethylamino-2-(1,5-dimethyl-3-oxo-2-phenyl-2,3-dihydro-1H-pyrazole-4-carbonyl)acrylonitrile with nitrogen nucleophiles)

RN 6975-75-3 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-[[4-methoxyphenyl]azo]- (9C1) (CA INDEX NAME)



REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS

L4 ANSWER 3 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:946108 CAPLUS

DOCUMENT NUMBER: 138:11409

TITLE: Integrin linked kinase modulation of macrophage activation

INVENTOR(S): Kojic, Ljiljana; Logan, Patricia M.; Wheeler, Jeffery J.; Sutton, Kimberley L.

PATENT ASSIGNEE(S): Kinetek Pharmaceuticals, Inc., Can.

SOURCE: PCT Int. Appl., 31 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002098419	A1	20021212	WO 2002-US18128	20020605
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RD, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.: US 2001-296181P P 20010605				

ABSTRACT:

Methods are provided to specifically modulate the activation of monocytes and/or macrophages. Administration of integrin linked kinase (ILK) blocking agents; compds. that otherwise prevent the binding of natural ILK ligands to ILK; or compds. that prevent expression of, or signaling through ILK exert an anti-inflammatory effect by inhibiting iNOS and COX-2 expression, at the level of transcription by suppressing the activation of NF- κ B. The modulation of activation through ILK is used to regulate immune processes at targeted sites, for example to decrease undesirable inflammatory responses.

IT 477781-02-5

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(Integrin linked kinase modulation of macrophage activation)

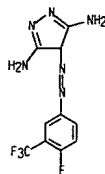
RN 477781-02-5 CAPLUS

CN 4H-Pyrazole-3,5-diamine, 4-[[4-fluoro-3-(trifluoroethyl)phenyl]azo]- (9C1) (CA INDEX NAME)

L4 ANSWER 2 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

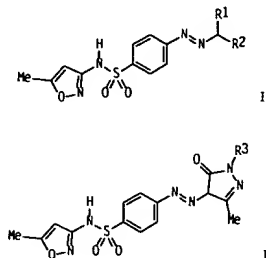
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



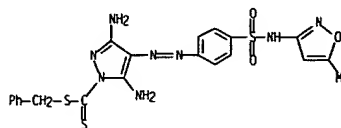
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 87 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:291509 CAPLUS
 DOCUMENT NUMBER: 137:216905
 TITLE: Chemistry and tautomerism of coupling products of diazotized sulfamethoxazole with some compounds containing an active methylene group
 AUTHOR(S): Hassan, Saber M.; Ezz, Hussein A.; Habib, Mohamed A.
 CORPORATE SOURCE: Chemistry Department, Faculty of Science, Al-Azhar University, Cairo, 11884, Egypt
 SOURCE: Journal of Chemical Research, Synopses (2002), (2), 64-65, 271-285
 CODEN: JCRPSD; ISSN: 0308-2342
 PUBLISHER: Science Reviews
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 137:216905
 GRAPHIC IMAGE:



ABSTRACT:
 Coupling diazotized sulfamethoxazole with active methylene compds. gave azo compds. I (R1 = MeCO, PhCO, CN; R2 = EtO2C, MeCO, CN) as mixt. of keto-enol and azo-hydrazo tautomers, except for I (R1 = R2 = CN), which exists exclusively as the hydrazo tautomer. I (R1 = MeCO, R2 = EtO2C) reacted with phenylhydrazine, hydrazinecarbodithioates, and thiosemicarbazide to give tautomeric azopyrazolones II (R3 = Ph, H2NCN, MeSCN, PhCH2SCN).

L4 ANSWER 4 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)
 IT 455332-42-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of azopyrazoles via heterocyclization of tautomeric sulfamethoxazole-based azo compds. with phenylhydrazine, hydrazinecarbodithioates, and thiosemicarbazide)
 RN 455332-42-0 CAPLUS
 CN 1H-Pyrazole-1-carbodithioic acid, 3,5-diamino-4-[[4-[(5-ethyl-3-isoxazolyl)amino]sulfonyl]phenyl]azo]-, phenylethyl ester (9C1) (CA INDEX NAME)

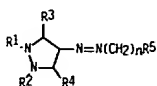


REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 87 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:276540 CAPLUS
 DOCUMENT NUMBER: 136:309925
 TITLE: Preparation of pyrazole compounds as cell proliferation inhibitors
 INVENTOR(S): Zhang, Zaihui; Yan, Jun; Leung, Danny; Costello, Penelope C.; Sanghera, Jasbinder; Daynard, Timothy Scott; Wang, Shisen; Chafeev, Mikhail
 PATENT ASSIGNEE(S): Can.
 SOURCE: U.S. Pat. Appl. Publ. 31 pp., Cont.-in-part of U.S. 6,214,813.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002042501	A1	20020411	US 2000-747563	20001222
US 6436915	B2	20020820		
US 6214813	B1	20010410	US 2000-544908	20000407
WO 2001077080	A2	20011018	WO 2001-CAB9	20010126
WO 2001077080	A3	20020228		
W: AU, CA, JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
EP 1276723	A2	20030122	EP 2001-902197	20010126
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
US 2003060453	A1	20030327	US 2002-77238	20020215
PRIORITY APPLN. INFO.:				
			US 2000-544908	A2 20000407
			US 2000-747563	A 20001222
			WO 2001-CAB9	W 20010126

OTHER SOURCE(S): MARPAT 136:309925
 GRAPHIC IMAGE:

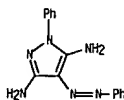


ABSTRACT:
 Claimed is a pharmaceutical compn. comprising the title compds. [I: R1 = alkyl, aryl, or heteroaryl, which may be substituted with one or more groups selected from C1-C20alkyl, C6-C10aryl, heteroalkyl, and heteroaryl; R2 = H, direct bond;

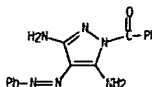
L4 ANSWER 5 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)
 R3, R4 = NH2, NHCOR5; R5 = R6, R7, R8; wherein R6 = alkyl, heteroalkyl, aryl, heteroaryl; R7 = (R6)k-alkylene, (R6)k-heteroalkylene, (R6)k-arylene, (R6)k-heteroarylene; R8 = (R7)k-alkylene, (R7)k-heteroalkylene, (R7)k-arylene, (R7)k-heteroarylene; k = 1, 2, 3, 4, 5; n = 1, 2, 3, 4, 5], stereoisomers, polymorphs, solvates, and pharmaceutically acceptable salts thereof, and a pharmaceutically acceptable carrier, diluent or excipient. These compds. have anti-proliferative activity, and may promote apoptosis in cells lacking normal regulation of cell cycle and death. The pharmaceutical formulations are useful in the treatment of hyperproliferative disorders, which disorders include tumor growth, lymphoproliferative diseases, and angiogenesis. Thus, diazotization of p-anisidine with NaNO2 in aq. HCl, followed by coupling with malononitrile and then cyclocondensation with hydrazine hydrate in EtOH under reflux gave 70% 3,5-Diamino-4-(p-methoxyphenyl)hydrazonopyrazole (II). II and its demethoxy deriv. showed IC50's of 1 and 0.6 μM, resp., against integrin linked kinase.

IT 70649-20-6P. 1H-Pyrazole-3,5-diamine, 1-phenyl-4-(phenylazo)-136773-54-1P. 1H-Pyrazole-3,5-diamine, 1-benzoyl-4-(phenylazo)-366802-72-4P. 1H-Pyrazole-3,5-diamine, 1-(4-bromophenyl)-4-(phenylazo)-366802-73-5P. Benzoic acid, 4-[3,5-diamino-4-(phenylazo)-1H-pyrazol-1-yl]-366802-74-6P. 1H-Pyrazole-3,5-diamine, 1-(4-fluorophenyl)-4-(phenylazo)-366802-84-8P. 1H-Pyrazole-3,5-diamine, 1-methyl-4-(phenylazo)-
 RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of pyrazole compds. as cell proliferation inhibitors for treating hyperproliferative disorders, tumor growth, lymphoproliferative diseases, and angiogenesis or as apoptosis promoters)

RN 70649-20-6 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 1-phenyl-4-(phenylazo)- (9C1) (CA INDEX NAME)

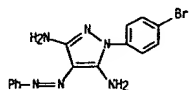


RN 136773-54-1 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 1-benzoyl-4-(phenylazo)- (9C1) (CA INDEX NAME)

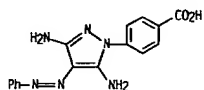


L4 ANSWER 5 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

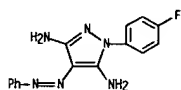
RN 366802-72-4 CAPLUS
CN 1H-Pyrazole-3,5-diazine, 1-(4-bromophenyl)-4-(phenylazo)- (9CI) (CA INDEX NAME)



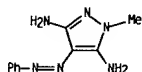
RN 366802-73-5 CAPLUS
CN Benzoic acid, 4-[(3,5-diamino-4-(phenylazo)-1H-pyrazol-1-yl)]- (9CI) (CA INDEX NAME)



RN 366802-74-6 CAPLUS
CN 1H-Pyrazole-3,5-diazine, 1-(4-fluorophenyl)-4-(phenylazo)- (9CI) (CA INDEX NAME)



RN 366802-84-8 CAPLUS
CN 1H-Pyrazole-3,5-diazine, 1-methyl-4-(phenylazo)- (9CI) (CA INDEX NAME)

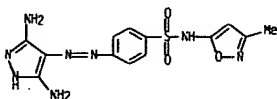


L4 ANSWER 6 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:229940 CAPLUS
DOCUMENT NUMBER: 137:93728
TITLE: Preparation of some novel 3,5-diaminopyrazole, pyrazolo[1,5-a][1,3,5]triazine and pyrazolo[1,5-a]-pyrimidine derivatives containing sulfonamido moieties as antimicrobial agents
AUTHOR(S): El-Gaby, Mohamed S. A.; Taha, Nadia M.; Micky, Jehane A.; El-Sharief, Marwa A. M. Sh.
CORPORATE SOURCE: Department of Chemistry, Faculty of Science, Al-Azhar University at Assiut, Assiut, 71524, Egypt
SOURCE: Acta Chimica Slovenica (2002), 49(1), 159-171
CODEN: ACSLE7; ISSN: 1318-0207
PUBLISHER: Slovenian Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 137:93728

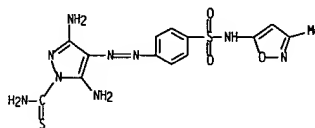
ABSTRACT: Various sulfa drugs, N-[(4-aminophenyl)sulfonyl]acetamide, 4-amino-N-(3-methyl-5-isoxazolyl)benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)benzenesulfonamide, were coupled with active methylene compds. to give various hydrazones. The reactivity of these hydrazones towards hydrazines was investigated. Thus, a novel series of 3,5-diaminopyrazoles were obtained. Pyrazolo[1,5-a][1,3,5]triazine derivs. were synthesized by reaction of an aminopyrazole deriv. with tri-Et orthoformate, acetic anhydride and benzoyl chloride, resp. When aminopyrazoles were allowed to react with ketene dithioacetal, novel pyrazolo[1,5-a]pyrimidine were obtained. Structures of the new compds. were established by their elemental anal. and spectral data. Some of the synthesized compds. were tested in vitro for their antimicrobial activity.

IT 441349-69-5P 441349-74-2P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and antimicrobial activity of N-isoxazolyl-4-[(pyrazolo[1,5-a]pyrimidinyl)azo]benzenesulfonamide, N-isoxazolyl-4-[(pyrazolo[1,5-a][1,3,5]triazinyl)azo]benzenesulfonamide and N-isoxazolyl-4-[(pyrazolyl)azo]benzenesulfonamide derivs.)
RN 441349-69-5 CAPLUS
CN Benzenesulfonamide, 4-[(3,5-diamino-1H-pyrazol-4-yl)azo]-N-(3-methyl-5-isoxazolyl)- (9CI) (CA INDEX NAME)

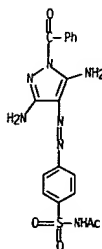


L4 ANSWER 5 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 441349-74-2 CAPLUS
CN 1H-Pyrazole-1-carbothioamide, 3,5-diamino-4-[[4-[(3-methyl-5-isoxazolyl)amino]sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

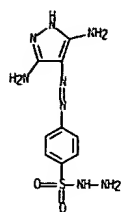


IT 441349-67-3P 441349-68-4P 441349-71-9P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and antimicrobial activity of N-isoxazolyl-4-[(pyrazolo[1,5-a]pyrimidinyl)azo]benzenesulfonamide, N-isoxazolyl-4-[(pyrazolo[1,5-a][1,3,5]triazinyl)azo]benzenesulfonamide and N-isoxazolyl-4-[(pyrazolyl)azo]benzenesulfonamide derivs.)
RN 441349-67-3 CAPLUS
CN Acetamide, N-[[4-[(3,5-diamino-1-benzoyl-1H-pyrazol-4-yl)azo]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)



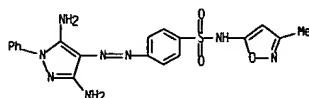
RN 441349-68-4 CAPLUS
CN Benzenesulfonic acid, 4-[(3,5-diamino-1H-pyrazol-4-yl)azo]-, hydrazide (9CI) (CA INDEX NAME)

L4 ANSWER 6 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 441349-71-9 CAPLUS

CN Benzenesulfonamide, 4-[(3,5-diamino-1-phenyl-1H-pyrazol-4-yl)azo]-N-(3-methyl-5-isoxazolyl)- (9CI) (CA INDEX NAME)



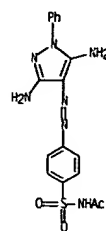
IT 441349-70-8P

RL: SPH (Synthetic preparation): PREP (Preparation)
(prepn. of)

RN 441349-70-8 CAPLUS

CN Acetamide, N-[[4-[(3,5-diamino-1-phenyl-1H-pyrazol-4-yl)azo]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 6 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



REFERENCE COUNT:

18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:194989 CAPLUS

DOCUMENT NUMBER: 136:346469

TITLE: Stability of metal complexes of azo derivatives of 4-aryl-3,5-diaminopyrazole

AUTHOR(S): Abdalla, N. A.; Amrallah, A. H.; El-Haty, E. Y.
CORPORATE SOURCE: Chemistry Department, Faculty of Science, Aswan, Egypt
SOURCE: Aswan Science & Technology Bulletin (2001). 20. 21-38
CODEN: ASTBEQ; ISSN: 1110-0184

PUBLISHER: Aswan Faculty of Science

DOCUMENT TYPE: Journal

LANGUAGE: English

ABSTRACT:

The formation constants of complexes of divalent metal ions with azo derivatives of 4-aryl-3,5-diaminopyrazole have been measured potentiometrically in 40 % (vol./vol.) EtOH-H₂O at 25 °C and 0.1 mol dm⁻³ NaClO₄ ionic strength. The order of complex stabilities is Cu(2+) > Ni(2+) > Co(2+) > Mn(2+). The distribution diagrams of the metal complex species are discussed.

IT 3656-02-8 140651-18-9 140651-20-3

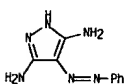
140651-21-4

RL: NUJ (Other use, unclassified): USES (Uses)

(transition metal complexation with 4-arylaazo-3,5-diaminopyrazoles)

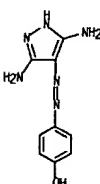
RN 3656-02-8 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)



RN 140651-18-9 CAPLUS

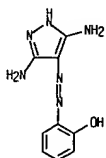
CN Phenol, 4-[(3,5-diamino-1H-pyrazol-4-yl)azo]- (9CI) (CA INDEX NAME)



RN 140651-20-3 CAPLUS

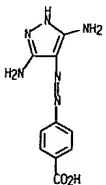
L4 ANSWER 7 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

CN Phenol, 2-[(3,5-diamino-1H-pyrazol-4-yl)azo]- (9CI) (CA INDEX NAME)



RN 140651-21-4 CAPLUS

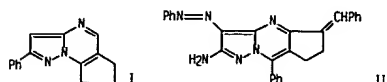
CN Benzoic acid, 4-[(3,5-diamino-1H-pyrazol-4-yl)azo]- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

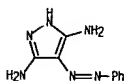
19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 87 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:132285 CAPLUS
 DOCUMENT NUMBER: 137:20349
 TITLE: Potential purine analogue antagonists: synthesis of novel cycloalkane ring-fused pyrazolo[1,5-a]pyrimidines
 AUTHOR(S): Elgemeie, Galal H.; Ali, Hany A.
 CORPORATE SOURCE: Chemistry Department, Faculty of Science, Helwan University, Cairo, Egypt
 SOURCE: Synthetic Communications (2002), 32(2), 253-264
 CODEN: SYKCAV; ISSN: 0039-7911
 PUBLISHER: Marcel Dekker, Inc.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 137:20349
 GRAPHIC IMAGE:

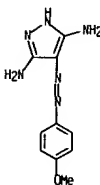


ABSTRACT:
 A convenient route for the synthesis of new variety of pyrazolo[1,5-a]pyrimidine derivs., e.g. I and II, by the reaction of 5-aminopyrazoles with suitable unsatd. keto compds. was developed. The structure of the reaction products was established based on the elemental anal., spectral data (IR, ¹H NMR, MS) and x-ray diffraction anal.

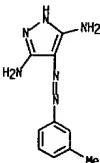
IT 3656-02-8 3656-03-9 3656-04-0
 6975-75-3 57770-60-2 128044-30-4
 RL: RCT (Reactant): RACT (Reactant or reagent)
 (prepn. of cycloalkane ring-fused pyrazolo[1,5-a]pyrimidines as potential purine analog antagonists)
 RN 3656-02-8 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)



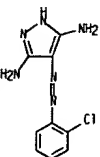
L4 ANSWER 8 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 57770-60-2 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(3-methylphenyl)azo]- (9CI) (CA INDEX NAME)



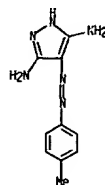
RN 128044-30-4 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(2-chlorophenyl)azo]- (9CI) (CA INDEX NAME)



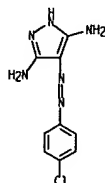
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 3656-03-9 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-methylphenyl)azo]- (9CI) (CA INDEX NAME)



RN 3656-04-0 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]- (9CI) (CA INDEX NAME)



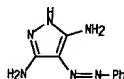
RN 6975-75-3 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-methoxyphenyl)azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:844065 CAPLUS
 DOCUMENT NUMBER: 136:247554
 TITLE: The reaction of dimethyl N-cyanodithioiminocarbonate with amino- and oxo-azoles: a new general synthesis of methylsulfonylazoloazines
 AUTHOR(S): Elgemeie, Galal H.; Sood, Soha A.
 CORPORATE SOURCE: Chemistry Department, Faculty of Science, Helwan University, Cairo, Egypt
 SOURCE: Journal of Chemical Research, Synopses (2001), (10), 439-441
 CODEN: JRPSCD; ISSN: 0308-2342
 PUBLISHER: Science Reviews
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 ABSTRACT:

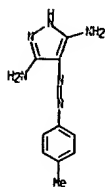
A novel and efficient method for the synthesis of a new variety of methylsulfonylazoloazines by the reaction of di-Me N-cyanodithioiminocarbonate with diazoles contg. amino and active methylene functions. The synthetic potential of the method is demonstrated.

IT 3656-02-8 3656-03-9 3656-04-0
 6975-75-3 62679-04-3 403821-71-6
 RL: RCT (Reactant): RACT (Reactant or reagent)
 (reaction of di-Me N-cyanodithioiminocarbonate with amino- and oxo-azoles)
 RN 3656-02-8 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)

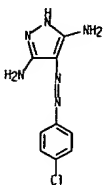


RN 3656-03-9 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-methylphenyl)azo]- (9CI) (CA INDEX NAME)

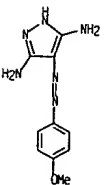
L4 ANSWER 9 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 3656-04-0 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]- (9C1) (CA INDEX NAME)



RN 6975-75-3 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-[(4-methoxyphenyl)azo]- (9C1) (CA INDEX NAME)



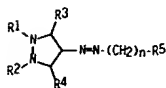
L4 ANSWER 10 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:762972 CAPLUS
DOCUMENT NUMBER: 135:303883
TITLE: Preparation of pyrazole compounds as cell proliferation inhibitors
INVENTOR(S): Zhang, Zaihui; Yan, Jun; Leung, Danny; Costello, Penelope C.; Sanghera, Jasbinder; Daynard, Timothy Scott; Wang, Shisen; Chafeev, Mikhail
PATENT ASSIGNEE(S): Kinetek Pharmaceuticals, Inc., Can.
SOURCE: PCT Int. Appl., 57 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001077080	A2	20011018	WO 2001-CA89	20010126
WO 2001077080	A3	20020228		
W: AU, CA, JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
US 6214813	B1	20010410	US 2000-544908	20000407
US 2002042501	A1	20020411	US 2000-747563	20001222
US 6436915	B2	20020820		
EP 1276723	A2	20030122	EP 2001-902197	20010126
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				

PRIORITY APPLN. INFO.: US 2000-544908 A 20000407
US 2000-747563 A 20001222
WO 2001-CA89 W 20010126

OTHER SOURCE(S): MARPAT 135:303883
GRAPHIC IMAGE:

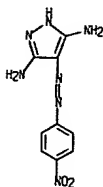


ABSTRACT:

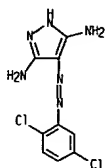
Claimed is a pharmaceutical compn. comprising the title compds. [I: R1 = alkyl, aryl, or heteroaryl, which may be substituted with one or more groups selected from C1-C20alkyl, C6-C10aryl, heteroalkyl, and heteroaryl; R2 = H, direct bond; R3, R4 = NH2, SH, OR; R5 = R6, R7, R8; wherein R6 = alkyl, heteroalkyl, aryl, heteroaryl; R7 = (R6)k-alkylene, (R6)k-heteroalkylene, (R6)k-arylene,

L4 ANSWER 9 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 62679-04-3 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-[(4-nitrophenyl)azo]- (9C1) (CA INDEX NAME)



RN 403821-71-6 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-[(2,5-dichlorophenyl)azo]- (9C1) (CA INDEX NAME)



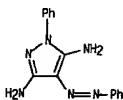
REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

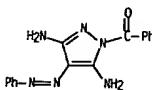
(R6)k-heteroarylene; R8 = (R7)k-alkylene, (R7)k-heteroalkylene, (R7)k-arylene, (R7)k-heteroarylene; k = 1, 2, 3, 4, 5; n = 1, 2, 3, 4, 5, stereoisomers, polymorphs, solvates, and pharmaceutically acceptable salts thereof, and a pharmaceutically acceptable carrier, diluent or excipient. These compds. have anti-proliferative activity, and may promote apoptosis in cells lacking normal regulation of cell cycle and death. The pharmaceutical formulations are useful in the treatment of hyperproliferative disorders, which disorders include tumor growth, lymphoproliferative diseases, and angiogenesis. Thus, diazotization of p-anisidine with NaNO2 in aq. HCl, followed by coupling with malononitrile and then cyclocondensation with hydrazine hydrate in EtOH under reflux gave 70% 3,5-Diamino-4-(p-methoxyphenyl)hydrazonopyrazole (II; R = OMe). II (R = OMe) and II (R = H) showed IC50 of .mu.g/mL against of 1 and 0.6 .mu.M. resp., against integrin linked kinase.

IT 70649-20-6P 136773-54-1P 366802-72-4P
366802-73-5P 366802-74-6P 366802-84-8P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOD (Biological study); PREP (Preparation); USES (Uses)
(prepn. of pyrazole compds. as cell proliferation inhibitors for treating hyperproliferative disorders, tumor growth, lymphoproliferative diseases, and angiogenesis or as apoptosis promoters)

RN 70649-20-6 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 1-phenyl-4-(phenylazo)- (9C1) (CA INDEX NAME)

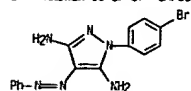


RN 136773-54-1 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 1-benzoyl-4-(phenylazo)- (9C1) (CA INDEX NAME)

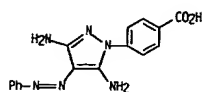


RN 366802-72-4 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 1-(4-bromophenyl)-4-(phenylazo)- (9C1) (CA INDEX NAME)

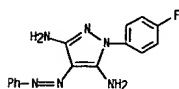
L4 ANSWER 10 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



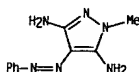
RN 366802-73-5 CAPLUS
CN Benzoic acid, 4-[(3,5-diamino-4-(phenylazo)-1H-pyrazol-1-yl)]- (9CI) (CA INDEX NAME)



RN 366802-74-6 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 1-(4-fluorophenyl)-4-(phenylazo)- (9CI) (CA INDEX NAME)

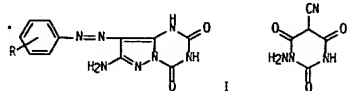


RN 366802-84-8 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 1-methyl-4-(phenylazo)- (9CI) (CA INDEX NAME)



L4 ANSWER 11 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001-730233 CAPLUS
DOCUMENT NUMBER: 136-102359
TITLE: Reactions of chlorocarbonyl isocyanate with 5-aminopyrazoles and active methylene nitriles: a novel synthesis of pyrazolo[1.5-a]-1,3,5-triazines and barbiturates
AUTHOR(S): Elgezele, Galal H.; El-Ezbawy, Saida R.; Ali, Hany A.
CORPORATE SOURCE: Chemistry Department, Faculty of Science, Helwan University, Cairo, Egypt
SOURCE: Synthetic Communications (2001), 31(22), 3459-3467
CODEN: SYNGAV; ISSN: 0039-7911
PUBLISHER: Marcel Dekker, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
GRAPHIC IMAGE:



ABSTRACT:

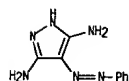
Reactions of chlorocarbonyl isocyanate and chlorosulfonyl isocyanate with aminopyrazoles and active methylene nitriles lead to novel pyrazolo[1.5-a]-1,3,5-triazines, e.g., I (R = H, 2-Cl, 3-Me, 4-Me, 4-OMe, 4-Cl, 4-NO₂), and barbituric acid derivs., e.g., II.

IT 3656-02-8 3656-03-9 3656-04-0
6975-75-3 57770-60-2 62679-04-3
128044-30-4

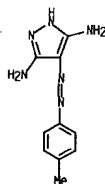
RL: RCT (Reactant); RACT (Reactant or reagent)
(pyrazolo[1.5-a]-1,3,5-triazines and barbiturates via reactions of chlorocarbonyl isocyanate with 5-aminopyrazoles and active methylene nitriles)

RN 3656-02-8 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)

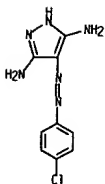
L4 ANSWER 11 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 3656-03-9 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-[(4-methylphenyl)azo]- (9CI) (CA INDEX NAME)

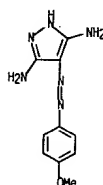


RN 3656-04-0 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]- (9CI) (CA INDEX NAME)

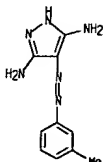


RN 6975-75-3 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-[(4-methoxyphenyl)azo]- (9CI) (CA INDEX NAME)

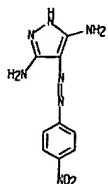
L4 ANSWER 11 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 57770-60-2 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-[(3-methylphenyl)azo]- (9CI) (CA INDEX NAME)

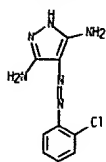


RN 62679-04-3 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-[(4-nitrophenyl)azo]- (9CI) (CA INDEX NAME)



RN 128044-30-4 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-[(2-chlorophenyl)azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

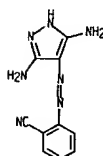


REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 87 CAPLUS COPYRIGHT 2003 ACS

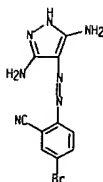
ACCESSION NUMBER: 2001:63971 CAPLUS
DOCUMENT NUMBER: 135:344412
TITLE: Synthesis of novel 3,5-diamino-4-(2-cyanoarylazo)pyrazoles
AUTHOR(S): Shvekhgetser, M.-G. A.; Ushakova, O. A.
CORPORATE SOURCE: Moscow A. N. Kosygin State Textile University, Moscow, 117918, Russia
SOURCE: Chemistry of Heterocyclic Compounds (New York, NY, United States)(Translation of Khimiya Geterotsiklicheskikh Soedinenii) (2001), 37(3), 370-371
CODEN: CHCCAL; ISSN: 0009-3122
PUBLISHER: Kluwer Academic/Consultants Bureau
DOCUMENT TYPE: Journal
LANGUAGE: English
ABSTRACT: The reaction of 2-cyanobenzenediazonium sulfates with propanedinitrile gave [(2-cyanophenyl)hydrazono]propanedinitrile derivs. (i.e., mesoxalic acid dinitriles). Cyclocondensation of the latter with hydrazine gave the title compds. [i.e., [(diaminopyrazolyl)azo]benzonitrile derivs.].

IT 371949-88-1P 371949-93-8P 371949-98-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of [(diaminopyrazolyl)azo]benzonitriles by cyclocondensation of hydrazine with [(cyanophenyl)hydrazono]propanedinitriles)
RN 371949-88-1 CAPLUS
CN Benzonitrile, 2-[(3,5-diamino-1H-pyrazol-4-yl)azo]- (9C1) (CA INDEX NAME)

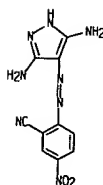


RN 371949-93-8 CAPLUS
CN Benzonitrile, 5-bromo-2-[(3,5-diamino-1H-pyrazol-4-yl)azo]- (9C1) (CA INDEX NAME)

L4 ANSWER 12 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 371949-98-3 CAPLUS
CN Benzonitrile, 2-[(3,5-diamino-1H-pyrazol-4-yl)azo]-5-nitro- (9C1) (CA INDEX NAME)

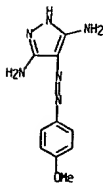


REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:223060 CAPLUS
DOCUMENT NUMBER: 135:5590
TITLE: Some nucleophilic reactions with 6-benzoyl-2,3-dichloroquinoxaline: synthesis of tetrazolo[1,5-a]quinoxaline, 2-methylidene-1,3-dithio[4,5-b]quinoxalines, quinoxalino[2,3-b]quinoxalines and pyrazolo[1',5':1,2]imidazo[4,5-b]quinoxalines
AUTHOR(S): El-Gaby, M. S. A.; El-Sharief, A. M. Sh.; Ammar, Y. A.; Mohamed, Y. A.; El-Salam, A. A. Abd
CORPORATE SOURCE: Department of Chemistry, Faculty of Science, Al-Azhar University at Assiut, Assiut, 71524, Egypt
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (2001), 40B(3), 195-200
CODEN: IJSBDB; ISSN: 0376-4699
PUBLISHER: National Institute of Science Communication, CSIR
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 135:5590
ABSTRACT: The starting material 6-benzoyl-2,3-dichloroquinoxaline is subjected to some nucleophilic reagents to study the effect of the benzoyl group on the reactivity of the two chlorine atoms.

IT 6975-75-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactions of 6-benzoyl-2,3-dichloroquinoxaline with nucleophiles)
RN 6975-75-3 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-[(4-methoxyphenyl)azo]- (9C1) (CA INDEX NAME)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

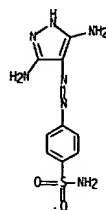
L4 ANSWER 14 OF 87 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2001:56022 CAPLUS
 DOCUMENT NUMBER: 134:237449
 TITLE: Utility of (p-Sulfonamidophenyl)azobalonitrile, and ethyl acetoacetate in synthesis of fused azole and azines derivatives II
 AUTHOR(S): Hassanien, A. A.; Acr, A. E.; Ghazlan, S. A. S.
 CORPORATE SOURCE: Department of Chemistry, Faculty of Education, Suez Canal University, Al-Arish, Egypt
 SOURCE: Journal of the Chinese Chemical Society (Taipei) (2000), 47(6), 1273-1278
 CODEN: JCCJAC; ISSN: 0009-4536
 PUBLISHER: Chinese Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GRAPHIC IMAGE:

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

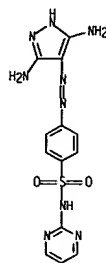
ABSTRACT:
 [(p-Sulfonamidophenyl)azo]balonitrile $RHSO_2C_6H_4N=NCHXY$ ($R = H$, 2-pyrimidyl; $X = Y = CN$) reacted with N-cyclohexaneseethylidene-2-cyanoacetoaldehyde, N'-arylethylidene-2-cyanoacetoaldehyde ($Ar = Ph$, 4-OZn-, 4-Cl-C₆H₄), 5-methylthiouracil and hydrazine hydrate to afford [1,2,4]triazolo-[1,5-a]pyrimidine derivs. (I) and (II), substituted pyrimidines (III) and pyrazoles (IV). The corresponding pyridazinones (V) were synthesized from the reaction of $RHSO_2C_6H_4N=NCHXY$ ($X = CO_2Et$, $Y = CO_2Et$) with Et cyanoacetate. V reacted with elemental sulfur to yield (VI). IV ($R = H$) underwent cycloaddn. with α -cinnamionitrile, β -ketoester and 1,3-diketones to yield pyrazolopyrimidines (VII) ($R_1 = Ph$, $R_2 = CN$, $R_3 = OH$; $R_1 = R_3 = Ph$, $R_2 = CN$; $R_1 = Ar$, $R_2 = CN$, $R_3 = NH_2$; $R_1 = Me$, $R_2 = H$, $R_3 = OH$; $R_1 = CH_2CO_2Et$, $R_2 = h$, $R_3 = OH$; $R_1 = R_3 = Me$, $R_2 = H$).

IT 221352-57-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis of fused azole and azines derivs. using (p-Sulfonamidophenyl)azobalonitrile and Et acetoacetate)
 RN 221352-57-4 CAPLUS
 CN Benzenesulfonamide, 4-[(3,5-diamino-1H-pyrazol-4-yl)azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 14 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

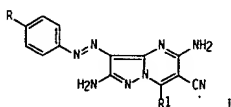


IT 330623-99-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (synthesis of fused azole and azines derivs. using (p-Sulfonamidophenyl)azobalonitrile and Et acetoacetate)
 RN 330623-99-9 CAPLUS
 CN Benzenesulfonamide, 4-[(3,5-diamino-1H-pyrazol-4-yl)azo]-N-2-pyrimidinyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

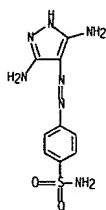
L4 ANSWER 15 OF 87 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2000:848766 CAPLUS
 DOCUMENT NUMBER: 134:147565
 TITLE: Studies on the synthesis of some pyrazolo[1,5-a]pyrimidines bearing sulfonamido moieties
 AUTHOR(S): El-Gaby, Mohamed S. A.; Sayed, Ahmed Z.; Abu-Shanab, Fathi A.; Hussein, Abdel M.
 CORPORATE SOURCE: Chemistry Department, Faculty of Science, Al-Azhar University, at Assiut, Assiut, 71524, Egypt
 SOURCE: Phosphorus, Sulfur and Silicon and the Related Elements (2000), 164, 1-10
 CODEN: PSSLEC; ISSN: 1042-6507
 PUBLISHER: Gordon & Breach Science Publishers
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 134:147565
 GRAPHIC IMAGE:



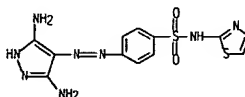
ABSTRACT:
 Prepn. of sulfonamido pyrazolo[1,5-a]pyrimidines, such as I ($R = SO_2NH_2$, $SO_2NHC(CH_3)NH_2$, 2-thiazolylaminosulfonyl; $R_1 = NHC_6H_4-4-OH$, $NHC_6H_4-4-OEt$, Me), was described. E.g., 4-[(3,5-diamino-1H-pyrazol-4-yl)azo]benzenesulfonamide and MeO-4-C₆H₄C(SMe).C(CN)2 were cyclized to form I ($R = SO_2NH_2$, $R_1 = NHC_6H_4-4-OH$) in 87% yield.

IT 221352-57-4 324542-26-9
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of pyrazolo[1,5-a]pyrimidines bearing sulfonamido moieties)
 RN 221352-57-4 CAPLUS
 CN Benzenesulfonamide, 4-[(3,5-diamino-1H-pyrazol-4-yl)azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 15 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

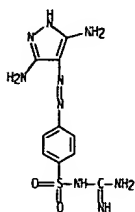


RN 324542-26-9 CAPLUS
 CN Benzenesulfonamide, 4-[(3,5-diamino-1H-pyrazol-4-yl)azo]-N-2-thiazolyl- (9CI) (CA INDEX NAME)



IT 324542-25-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. of pyrazolo[1,5-a]pyrimidines bearing sulfonamido moieties)
 RN 324542-25-8 CAPLUS
 CN Benzenesulfonamide, N-(aminoinosethyl)-4-[(3,5-diamino-1H-pyrazol-4-yl)azo]- (9CI) (CA INDEX NAME)

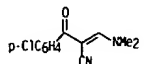
L4 ANSWER 15 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 16 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:310884 CAPLUS
 DOCUMENT NUMBER: 133:89496
 TITLE: Heterocyclic synthesis via enamionitriles: an efficient, one step synthesis of some novel azolo[1.5-a]pyrimidine, pyrimido[1.2-a]benzimidazole, pyrido[1.2-a]benzimidazole, pyridine and pyrazole derivatives
 AUTHOR(S): Al-Afaleq, Eljazi I.
 CORPORATE SOURCE: Chemistry Department, Girls College of Science, Dammam, 31113, Saudi Arabia
 SOURCE: Synthetic Communications (2000), 30(11), 1985-1999
 CODEN: SYNGAV; ISSN: 0039-7911
 PUBLISHER: Marcel Dekker, Inc.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 133:89496
 GRAPHIC IMAGE:



ABSTRACT:

Novel p-chlorobenzyl substituted pyrazolo[1.5-a]pyrimidines, a 1.2.4-triazolo[1.5-a]pyrimidine, and a pyrimido[1.2-a]benzimidazole were synthesized by reacting 3-(4-chlorophenyl)-2-(N,N-dimethylamino)methylene-3-oxopropanenitrile (I) with 5-amino-3- and/or 4-substituted-1H-pyrazoles, 3-amino-1,2,4-triazole and 2-aminobenzimidazole. The reaction of I with 1H-benzimidazol-2-ylacetoneitrile afforded the p-chlorobenzyl substituted pyrido[1.2-a]benzimidazole. The reaction of I with guanidine, hydrazine, and Ph hydrazine afforded p-chlorobenzyl substituted pyrimidine and pyrazole compds. However, the reaction of I with hydroxyl amine did not afford the expected isoxazole.

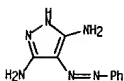
IT 3656-02-8 3656-04-0

RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of nitrogen atom, heterocycles via Michael addn. of p-chlorobenzyl substituted enamionitriles)

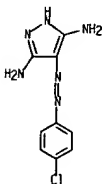
RN 3656-02-8 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)

L4 ANSWER 16 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



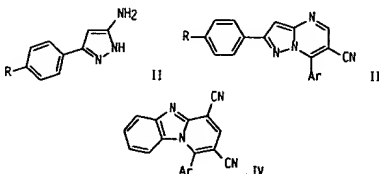
RN 3656-04-0 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 17 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:136747 CAPLUS
 DOCUMENT NUMBER: 132:293730
 TITLE: Enamionitriles in heterocyclic synthesis: New routes for the synthesis of some novel azolo[1.5-a]pyrimidine, pyrimido[1.2-a]benzimidazole, pyrido[1.2-a]benzimidazole, pyrazolo[3.4-b]pyridine, pyrazole and pyrimidine derivatives
 AUTHOR(S): Al-Zaydi, Khadijah Mohamed; Al-Shiekh, Mariam Abd Alha; Hafez, Ebtisam Abdel-Aziz
 CORPORATE SOURCE: Dep. Chem., Coll. Girls Education, Jeddah, 21481, Saudi Arabia
 SOURCE: Journal of Chemical Research, Synopses (2000), (1), 13-15, 173-192
 CODEN: JRPSCD; ISSN: 0308-2342
 PUBLISHER: Science Reviews Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 132:293730
 GRAPHIC IMAGE:



ABSTRACT:

The synthesis of several new azolo[1.5-a]pyrimidines, pyrimido[1.2-a]benzimidazoles, pyrazolo[3.4-b]pyridines, pyrido[1.2-a]benzimidazoles, pyrazoles, and pyrimidines was reported. Thus, cyclocondensation of the enamionitriles ArCOC(C.tpi)bond.N):CHOMe2 (I; Ar = Ph, 4-MeC6H4) with the aminopyrazoles II (R = H, Me) gave the pyrazolopyrimidinecarbonitriles III. Similarly, cyclization of I with 2-(cyanomethyl)benzimidazole gave the dicyanopyrido[1.2-a]benzimidazoles IV.

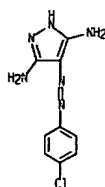
IT 3656-04-0

RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of fused-ring heterocycles via cyclocondensation reactions of (dimethylamino)benzoylacrylonitriles with heterocyclic amines)

RN 3656-04-0 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]- (9CI) (CA INDEX NAME)

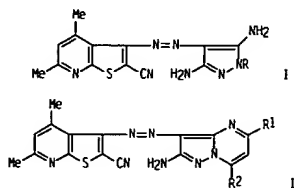
L4 ANSWER 17 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 18 OF 87 CAPLUS COPYRIGHT 2003 ACS

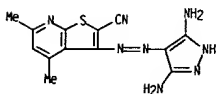
ACCESSION NUMBER: 2000:41863 CAPLUS
DOCUMENT NUMBER: 132:194356
TITLE: Studies on the synthesis of new 3-[(3,5-diamino-1-substituted-pyrazol-4-yl)azo]thieno[2,3-b]pyridines and 3-[(2-amino-5,7-disubstituted-pyrazolo[1,5-a]pyrimidin-3-yl)azo]thieno[2,3-b]pyridines
AUTHOR(S): Yuh-Men, Ho
CORPORATE SOURCE: Department of Textile Engineering, Nanya Junior College, Chung-Li, 32034, Taiwan
SOURCE: Journal of the Chinese Chemical Society (Taipei) (1999), 46(6), 955-962
CODEN: JCCJAC; ISSN: 0009-4536
PUBLISHER: Chinese Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
GRAPHIC IMAGE:



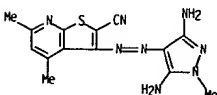
ABSTRACT: Coupling the diazonium salt of 3-amino-2-cyano-4,6-dimethylthieno[2,3-b]pyridine with malononitrile gave 2-cyano-3-(hydrazonomalononitrile)-4,6-dimethylthieno[2,3-b]pyridine, which then reacted with hydrazine compds. to yield title compds. I (R = H, Me, Ac, Ph, SO2Ph, Bz, isonicotinoyl, phthalazinyl). Title compds. II (R1 = Me, CF3; R2 = Me, Ph, CF3, thienyl, furyl) were obtained in good yield by the cyclocondensation reaction of I (R = H) with the appropriate 1,3-diketones under acidic conditions.

IT 259854-44-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and reaction with diketones)
RN 259854-44-9 CAPLUS
CN Thieno[2,3-b]pyridine-2-carbonitrile, 3-[(3,5-diamino-1H-pyrazol-4-yl)azo]-

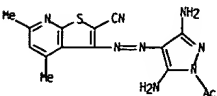
L4 ANSWER 18 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



IT 259854-45-0P 259854-46-1P 259854-47-2P
259854-48-3P 259854-49-4P 259854-50-7P
259854-51-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 259854-45-0 CAPLUS
CN Thieno[2,3-b]pyridine-2-carbonitrile, 3-[(3,5-diamino-1-methyl-1H-pyrazol-4-yl)azo]-4,6-dimethyl- (9CI) (CA INDEX NAME)

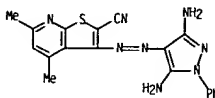


RN 259854-46-1 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 1-acetyl-4-[(2-cyano-4,6-dimethylthieno[2,3-b]pyridin-3-yl)azo]- (9CI) (CA INDEX NAME)

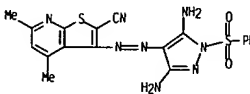


RN 259854-47-2 CAPLUS
CN Thieno[2,3-b]pyridine-2-carbonitrile, 3-[(3,5-diamino-1-phenyl-1H-pyrazol-4-yl)azo]-4,6-dimethyl- (9CI) (CA INDEX NAME)

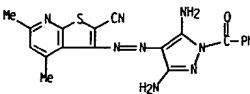
L4 ANSWER 18 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



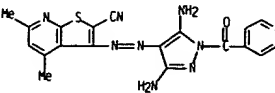
RN 259854-48-3 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-[(2-cyano-4,6-dimethylthieno[2,3-b]pyridin-3-yl)azo]-1-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



RN 259854-49-4 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 1-benzoyl-4-[(2-cyano-4,6-dimethylthieno[2,3-b]pyridin-3-yl)azo]- (9CI) (CA INDEX NAME)

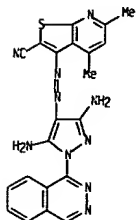


RN 259854-50-7 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-[(2-cyano-4,6-dimethylthieno[2,3-b]pyridin-3-yl)azo]-1-(4-pyridinylcarbonyl)- (9CI) (CA INDEX NAME)



RN 259854-51-8 CAPLUS
CN Thieno[2,3-b]pyridine-2-carbonitrile, 3-[(3,5-diamino-1-(1-phthalazinyl)-1H-pyrazol-4-yl)azo]-4,6-dimethyl- (9CI) (CA INDEX NAME)

L4 ANSWER 18 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 19 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:1167 CAPLUS
 DOCUMENT NUMBER: 132:194340
 TITLE: Potential purine antagonists: synthesis of novel benzocarbocyclic pyrazolo[1,5-a]pyridines
 AUTHOR(S): Farrag, Dalia S.
 CORPORATE SOURCE: National Research Centre, Cairo, Egypt
 SOURCE: Mansoura Science Bulletin, A: Chemistry (1999), 26(1, Suppl. 1), 135-142
 CODEN: MSBCF4; ISSN: 1110-4562
 PUBLISHER: Mansoura University
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 ABSTRACT:

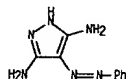
Title compds. were prepd. via reaction of azino azoles with the sodium salt of 2-(hydroxymethylene)-1-indanone.

IT 3656-02-8 3656-03-9 3656-04-0
 6975-75-3

RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of benzocarbocyclic derivs. of pyrazolo[1,5-a]pyridines)

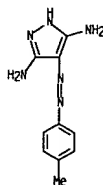
RN 3656-02-8 CAPLUS

CN 1H-Pyrazole-3,5-diazine, 4-(phenylazo)- (9CI) (CA INDEX NAME)



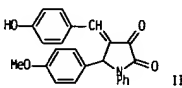
RN 3656-03-9 CAPLUS

CN 1H-Pyrazole-3,5-diazine, 4-[(4-methylphenyl)azo]- (9CI) (CA INDEX NAME)



L4 ANSWER 20 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1999:645613 CAPLUS
 DOCUMENT NUMBER: 132:49896
 TITLE: Anisylidenepyruvic acid in heterocyclic synthesis
 AUTHOR(S): El-Maati, T. M. A.
 CORPORATE SOURCE: Faculty of Specific Education, University of Mansoura, New Damietta, Egypt
 SOURCE: Bollettino Chimico Farmaceutico (1999), 138(6), 272-279
 CODEN: BCF4AI; ISSN: 0006-6648
 PUBLISHER: Societa Editoriale Farmaceutica
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GRAPHIC IMAGE:



ABSTRACT:

Substituted pyrans, pyridines, and thiins were prepd. from anisylidenepyruvic acid (I). An indenopyran was also prepd. from I via a Michael addn. reaction. I formed cyclocondensation products with o-phenylenediamine and o-aminophenol. Reaction of I with thiosemicarbazide, followed by cyclization, gave a triazine. 2,3-Pyrrolidinedione deriv. II was subjected to reaction with o-phenylenediamine, o-aminophenol and diazino(arylazo)pyrazoles to yield Schiff bases. Addn. of malononitrile (1 mol) to II gave a pyrrolopyran while addn. of 2 mol of malononitrile gave an isolindole. Reaction of II with urea yielded a pyrrolopyridine. The structures of the products were confirmed by their correct anal. data.

IT 6975-75-3 57770-60-2

RL: RCT (Reactant); RACT (Reactant or reagent)
 (anisylidenepyruvic acid in heterocyclic synthesis)

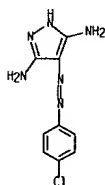
RN 6975-75-3 CAPLUS

CN 1H-Pyrazole-3,5-diazine, 4-[(4-methoxyphenyl)azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 19 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

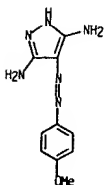
RN 3656-04-0 CAPLUS

CN 1H-Pyrazole-3,5-diazine, 4-[(4-chlorophenyl)azo]- (9CI) (CA INDEX NAME)



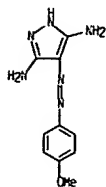
RN 6975-75-3 CAPLUS

CN 1H-Pyrazole-3,5-diazine, 4-[(4-methoxyphenyl)azo]- (9CI) (CA INDEX NAME)

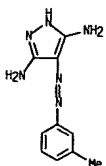


REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 20 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

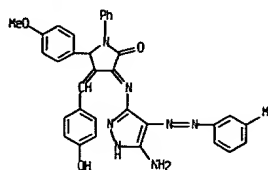


RN 57770-60-2 CAPLUS
CN 1H-Pyrazole-3,5-diazine, 4-[(3-methylphenyl)azo]- (9CI) (CA INDEX NAME)

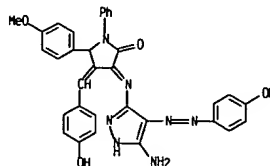


IT 252899-30-2P 252899-35-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(antilydipyrrolic acid in heterocyclic synthesis)
RN 252899-30-2 CAPLUS
CN 2-Pyrrolidinone, 3-[[[5-amino-4-[(3-methylphenyl)azo]-1H-pyrazol-3-yl]imino]-4-[(4-hydroxyphenyl)methylene]-5-(4-methoxyphenyl)-1-phenyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 20 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 252899-35-7 CAPLUS
CN 2-Pyrrolidinone, 3-[[[5-amino-4-[(4-methoxyphenyl)azo]-1H-pyrazol-3-yl]imino]-4-[(4-hydroxyphenyl)methylene]-5-(4-methoxyphenyl)-1-phenyl]- (9CI) (CA INDEX NAME)



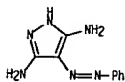
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 21 OF 87 CAPLUS COPYRIGHT 2003 ACS

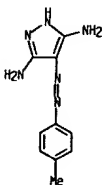
ACCESSION NUMBER: 1999:501608 CAPLUS
DOCUMENT NUMBER: 131:243237
TITLE: Synthesis of isochromanopyrimidinoazoles
AUTHOR(S): Han, Guang-Fan; Wang, Jin-Jun; Jiang, Gui-Ji
CORPORATE SOURCE: Department of Inspect, Jilin Institute of Medical Sciences, Jilin, 132001, Peop. Rep. China
SOURCE: Hecheng Huaxue (1999), 7(2), 210-212
CODEN: HEHUE2; ISSN: 1005-1511
PUBLISHER: Hecheng Huaxue Bianjibu
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

ABSTRACT: The title compds. have been synthesized by means of condensation reaction of .alpha..beta.-unsatd. isochroman-4-one with 3-amino-1,2,4-triazole, 3,5-diamino-4-(p-substituted-phenyl) pyrazole or 2-aminobenzimidazole.

IT 3656-02-8 3656-03-9 3656-04-0
62679-03-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(synthesis of isochromanopyrimidinoazoles)
RN 3656-02-8 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)

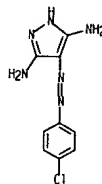


RN 3656-03-9 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-[(4-methylphenyl)azo]- (9CI) (CA INDEX NAME)

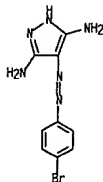


RN 3656-04-0 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 21 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 62679-03-2 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-[(4-bromophenyl)azo]- (9CI) (CA INDEX NAME)



L4 ANSWER 22 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1999-458502 CAPLUS

DOCUMENT NUMBER: 132:78402

TITLE: Anticetabolites: a novel synthesis of nonclassical

condensed carbocyclic purine analogues

AUTHOR(S): Elgezzei, Galal H.; Fathy, Nahed M.; Farrag, Dalia A.

CORPORATE SOURCE: Chemistry Department, Faculty of Science, Helwan

University, Cairo, Egypt

SOURCE: Egyptian Journal of Pharmaceutical Sciences (1998).

Volume Date 1997, 38(4-6), 351-361

CODEN: EJPSBZ; ISSN: 0301-5068

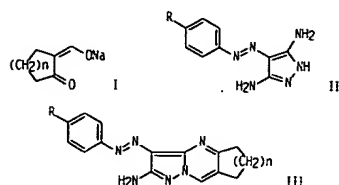
PUBLISHER: National Information and Documentation Centre

JOURNAL TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 132:78402

GRAPHIC IMAGE:



ABSTRACT:

A novel synthesis of condensed carbocyclic purine analogs via reaction of amino-diazoles and amino-triazoles with sodium salts of 2-(hydroxymethyl)-1-cycloalkanes was reported. E.g., cycloalkane sodium salts I (n = 1, 2, 3, 4, 6) were condensed with diaminopyrazoles II (R = H, Cl, Me, OMe) by refluxing for 10 min. in water and ethanol in the presence of piperidine acetate followed by addn of acetic acid to give the corresponding carbocyclic purine analogs III.

IT 3656-02-8 3656-03-9 3656-04-0

6975-75-3

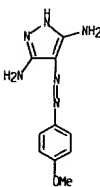
RL: RCT (Reactant); RACT (Reactant or reagent)

(synthesis of carbocyclic purine analogs via cyclocondensation)

RN 3656-02-8 CAPLUS

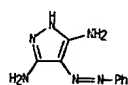
CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)

L4 ANSWER 22 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



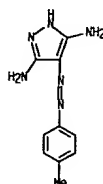
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 22 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



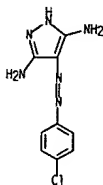
RN 3656-03-9 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-[(4-ethylphenyl)azo]- (9CI) (CA INDEX NAME)



RN 3656-04-0 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]- (9CI) (CA INDEX NAME)



RN 6975-75-3 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-[(4-methoxyphenyl)azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 23 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1999-87103 CAPLUS

DOCUMENT NUMBER: 130:237492

TITLE: Utility of [(p-sulfonamidophenyl)azo]malononitrile in the synthesis of polyfunctionally substituted pyrimidine, pyrazole, isoxazole and pyridazine derivatives

AUTHOR(S): Hassanien, Abu Zeid Abd El-Baset; Hafiz, Ibrahim Saad

CORPORATE SOURCE: Abdel; Elmagdi, Mohamed Hilmy

Department of Chemistry, Faculty of Education, Suez

Canal University, Arish, Egypt

SOURCE: Journal of Chemical Research, Synopses (1999), (1),

8-9, 129-140

CODEN: JRP5DC; ISSN: 0308-2342

PUBLISHER: Royal Society of Chemistry

JOURNAL TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 130:237492

GRAPHIC IMAGE:

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

ABSTRACT:

(sulfonamidophenyl)azomalononitriles I (R = H, 3,5-dimethyl-2-pyridinyl) and (sulfonamidophenyl)azocrylonitriles II (X = CH₂, O), prepd. from I by addn. of piperidine or morpholine, undergo addn. reaction with various reagents at either the cyano or amino groups followed by cyclization to afford pyrimidine, pyrazole, isoxazole and pyridazine derivs. with potential biol. activities. E.g., reaction of I (R = H) with malonodinitrile in ethanol in the presence of NEt₃ gives aminosulfonamidophenyliminopyridodicarbonitrile III (R₂ = 4-H₂SO₂C₆H₄) in 80% yield. E.g., II (X = CH₂) is fused with urea at 180 degree. to give piperidinylaminoaminosulfonylphenylazopyrimidine IV (R₃ = 4-H₂SO₂C₆H₄N) in 65% yield.

IT 221352-57-4P 221352-59-6P

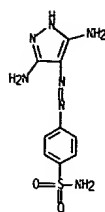
RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of pyrimidine, pyrazole, isoxazole and pyridazine derivs. by addn. and condensation reactions of nucleophiles with sulfonamidophenylazocrylonitriles and sulfonamidophenylazomalononitriles)

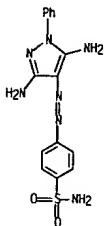
RN 221352-57-4 CAPLUS

CN Benzenesulfonamide, 4-[(3,5-diamino-1H-pyrazol-4-yl)azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 23 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 221352-59-6 CAPLUS
 CN Benzenesulfonamide, 4-[(3,5-diamino-1-phenyl-1H-pyrazol-4-yl)azo]- (9C1)
 (CA INDEX NAME)



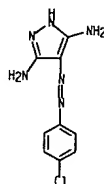
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 24 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1998:695157 CAPLUS
 DOCUMENT NUMBER: 130:66418
 TITLE: Aminoazoles in heterocyclic synthesis: synthesis of some new benzimidazole, triazole, tetrazole, pyrazole, thiazole, pyridine and pyridinoquinazolinones
 AUTHOR(S): Kandeel, E. M.; Hassoua, M.; Sadek, E. G.; Khalil, A. M.
 CORPORATE SOURCE: Chemistry Department, Faculty of Science, Mansoura University, Mansoura, Egypt
 SOURCE: Indian Journal of Heterocyclic Chemistry (1998), 8(1), 15-18
 CODEN: IJCHEI; ISSN: 0971-1627
 PUBLISHER: Prof. R. S. Varma
 DOCUMENT TYPE: Journal
 LANGUAGE: English

ABSTRACT: Some new condensed heterocycles were synthesized via condensation of 3-aryl-2,4-dicarboxanilide-5-hydroxy-5-methylcyclohexanone with aminoazoles, namely: 2-aminobenzimidazole, 3-amino-1,2,4-triazole, 5-aminotetrazole monohydrate, 5-amino-3-phenylpyrazole, 4-(p-chlorophenylazo)-3,5-diaminopyrazole, 3-amino-5-methyl(or ethyl)thiazole, 2-amino-4,6-dihydropyrimidine, and 2-amino-3-hydroxypyridine.

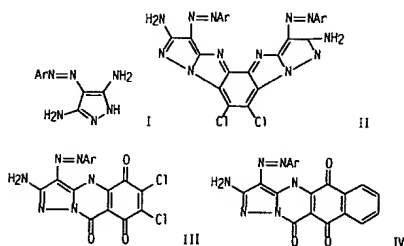
IT 3656-04-0
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of fused quinazolinones)
 RN 3656-04-0 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]- (9C1) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 25 OF 87 CAPLUS COPYRIGHT 2003 ACS

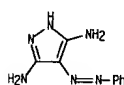
ACCESSION NUMBER: 1996:253678 CAPLUS
 DOCUMENT NUMBER: 125:10693
 TITLE: Reactions of 3,5-diamino-4-arylazopyrazoles with chlorinated quinones
 AUTHOR(S): Hassan, Alaa A.; Mohamed, Nasr K.; Aly, Ashraf; Mourad, Aboul-Fetouh E.
 CORPORATE SOURCE: Dep. Chem., Fac. Sci., El-Minia Univ., El-Minia, Egypt
 SOURCE: Bulletin des Societes Chimiques Belges (1996), 105(4), 159-62
 CODEN: BSCBAG; ISSN: 0037-9646
 PUBLISHER: Societe Chimique Belges
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GRAPHIC IMAGE:



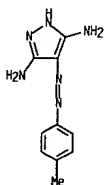
ABSTRACT: 3,5-Diamino-4-arylazopyrazoles I reacted with 3,4,5,6-tetrachloro-1,2-benzoquinone(CHL-o) via charge-transfer complex formation giving bisimidazobenzopyrazoles II. On mixing either 2,3,5,6-tetrachloro-1,4-benzoquinone(CHL-p) or 2,3-dichloro-1,4-naphthoquinone(DCHNQ) with I in DMF, pyrazoloquinazolinetrione III and IV derivs. were formed.

IT 3656-02-8, 3,5-Diamino-4-(phenylazo)pyrazole 3656-03-9,
 3,5-Diamino-4-(4-methylphenylazo)pyrazole 3656-04-0,
 3,5-Diamino-4-(4-chlorophenylazo)pyrazole 6975-75-3,
 3,5-Diamino-4-(4-methoxyphenylazo)pyrazole
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reactions of diamino(arylo)pyrazoles with chlorinated quinones)
 RN 3656-02-8 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9C1) (CA INDEX NAME)

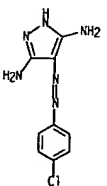
L4 ANSWER 25 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 3656-03-9 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-methylphenyl)azo]- (9C1) (CA INDEX NAME)

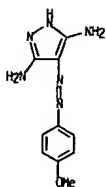


RN 3656-04-0 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]- (9C1) (CA INDEX NAME)



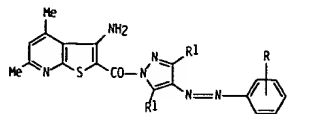
RN 6975-75-3 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-methoxyphenyl)azo]- (9C1) (CA INDEX NAME)

L4 ANSWER 25 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



L4 ANSWER 26 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1996:12389 CAPLUS
 DOCUMENT NUMBER: 124:59064
 TITLE: Heterocyclic conazo dyes derived from 3-cyano-2(1H)-pyridinethione. Part 2. 2-[[4-(Aryloxy)-3,5-disubstituted-pyrazol-1-yl]carbonyl]-thieno[2,3-b]pyridine derivatives
 AUTHOR(S): Ho, Yuh Wen; Wang, Ing Jing
 CORPORATE SOURCE: Department Textile Engineering, National Taiwan Institute Technology, Taipei, 10772, Taiwan
 SOURCE: Dyes and Pigments (1995), 29(4), 295-304
 CODEN: DYPIOX; ISSN: 0143-7208
 PUBLISHER: Elsevier
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 124:59064
 GRAPHIC IMAGE:

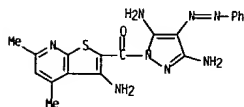


ABSTRACT:

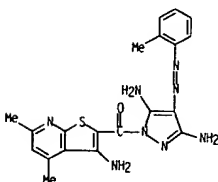
Acetylacetone and malononitrile were coupled with diazotized arylamines to give arylazoacetylacetones and arylazomalononitriles; these when refluxed with 3-amino-4,6-dimethyl-2-thieno[2,3-b]pyridine carbonylhydrazide in the presence of glacial acetic acid yielded the corresponding 2-[[4-(aryloxy)-3,5-disubstituted-pyrazol-1-yl]carbonyl]-3-amino-4,6-dimethylthieno[2,3-b]pyridine dyes (I; R = H, 2-Me, 0-Cl, 2-CN, 2-NO₂, 4-NHAc; R₁ = Me, NH₂). The dyes were applied to polyester and polyamide fibers, and their spectral and fastness properties measured.

IT 172429-01-5P 172429-02-6P 172429-03-7P
 172429-04-8P 172429-05-9P 172429-06-0P
 RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (prepn. of 2-[[4-(Aryloxy)-3,5-disubstituted-pyrazol-1-yl]carbonyl]thieno[2,3-b]pyridine dyes for polyamide and polyester fibers)
 RN 172429-01-5 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 1-[(3-amino-4,6-dimethylthieno[2,3-b]pyridin-2-yl)carbonyl]-4-(phenylazo)- (9CI) (CA INDEX NAME)

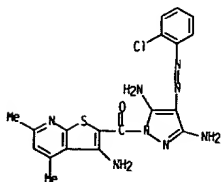
L4 ANSWER 26 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 172429-02-6 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 1-[(3-amino-4,6-dimethylthieno[2,3-b]pyridin-2-yl)carbonyl]-4-[(2-methylphenyl)azo]- (9CI) (CA INDEX NAME)

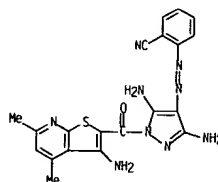


RN 172429-03-7 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 1-[(3-amino-4,6-dimethylthieno[2,3-b]pyridin-2-yl)carbonyl]-4-[(2-chlorophenyl)azo]- (9CI) (CA INDEX NAME)

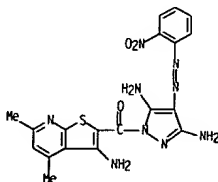


RN 172429-04-8 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 1-[(3-amino-4,6-dimethylthieno[2,3-b]pyridin-2-yl)carbonyl]-4-[(2-cyanophenyl)azo]- (9CI) (CA INDEX NAME)

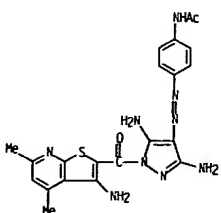
L4 ANSWER 26 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 172429-05-9 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 1-[(3-amino-4,6-dimethylthieno[2,3-b]pyridin-2-yl)carbonyl]-4-[(2-nitrophenyl)azo]- (9CI) (CA INDEX NAME)



RN 172429-06-0 CAPLUS
 CN Acetamide, N-[4-[[3,5-diamino-1-[(3-amino-4,6-dimethylthieno[2,3-b]pyridin-2-yl)carbonyl]-1H-pyrazol-4-yl]azo]phenyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 26 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

L4 ANSWER 27 OF 87 CAPLUS COPYRIGHT 2003 ACS

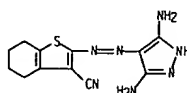
ACCESSION NUMBER: 1995:954284 CAPLUS
 DOCUMENT NUMBER: 124:146056
 TITLE: A convenient synthesis of polyfunctionally substituted benzo[b]thiophen-2-ylpyridine, -pyrazole, -isoxazole and -pyridazine derivatives
 AUTHOR(S): Sherif, Sherif M.; Mohareb, Rafat M.; Shams, Hoda Z.; Gaber, Hated M. M.
 CORPORATE SOURCE: Dep. Chem., Cairo Univ., Giza, Egypt
 SOURCE: Journal of Chemical Research, Synopses (1995), (11), 434-5
 CODEN: JRPSDC; ISSN: 0308-2342
 PUBLISHER: Royal Society of Chemistry
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 124:146056

ABSTRACT:
 A facile and convenient route for the synthesis of polyfunctionally substituted benzo[b]thiophen-2-ylpyridine, -pyrazole, -isoxazole and -pyridazine derivs. is reported. The key precursor is 2-amino-4,5,6,7-tetrahydrobenzo[b]thiophene-3-carbonitrile.

IT 173540-19-7P 173540-31-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 173540-19-7 CAPLUS

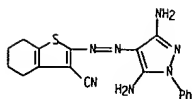
CN Benzo[b]thiophene-3-carbonitrile, 2-[(3,5-diamino-1H-pyrazol-4-yl)azo]-4,5,6,7-tetrahydro- (9CI) (CA INDEX NAME)



RN 173540-31-3 CAPLUS

CN Benzo[b]thiophene-3-carbonitrile, 2-[(3,5-diamino-1-phenyl-1H-pyrazol-4-yl)azo]-4,5,6,7-tetrahydro- (9CI) (CA INDEX NAME)

L4 ANSWER 27 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



L4 ANSWER 28 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1995:838014 CAPLUS
 DOCUMENT NUMBER: 123:328359
 TITLE: Transition metal chelates of some 4-arylazo-3,5-diaminopyrazoles
 AUTHOR(S): Amrallah, A. H.
 CORPORATE SOURCE: Chemistry Department, Faculty of Science, Aswan, Egypt
 SOURCE: Aswan Science & Technology Bulletin (1995), 16, 97-116
 CODEN: ASTBEQ; ISSN: 1110-0184
 PUBLISHER: Faculty of Science
 DOCUMENT TYPE: Journal
 LANGUAGE: English

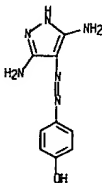
ABSTRACT:
 Mononuclear and binuclear copper(II), nickel (II), cobalt(II) and manganese(II) chelates of some 4-arylazo-3,5-diaminopyrazoles were prepd. and studied by IR, ¹H NMR, electronic spectra, molar conductance and elemental anal. The study revealed that the chelates exist mainly in the azo-hydrazone forms. The ligands behave as bidentate and tetradentate. The stoichiometry and stability consts. were detd. and discussed. The validity of Beer's law was tested for micro detn. of the metal ions studied.

IT 140651-18-9P 140651-19-0P 140651-20-3P

RL: ARG (Analytical reagent use); RCT (Reactant); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (for prepn. of transition metal complexes and for microanal. of transition metal ions)

RN 140651-18-9 CAPLUS

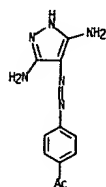
CN Phenol, 4-[(3,5-diamino-1H-pyrazol-4-yl)azo]- (9CI) (CA INDEX NAME)



RN 140651-19-0 CAPLUS

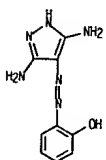
CN Ethanone, 1-[4-[(3,5-diamino-1H-pyrazol-4-yl)azo]phenyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 28 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 140651-20-3 CAPLUS

CN Phenol, 2-[(3,5-diamino-1H-pyrazol-4-yl)azo]- (9CI) (CA INDEX NAME)



L4 ANSWER 29 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1995:704796 CAPLUS

DOCUMENT NUMBER: 123:285946

TITLE: Nitriles in heterocyclic synthesis: a single-step synthesis of azolo[1.5-a]pyrimidine and benzimidazo[1.5-a]pyridine derivatives

AUTHOR(S): Kandeel, Zaghoul El-Shatat

CORPORATE SOURCE: Fac. Sci., Cairo Univ., Giza, Egypt

SOURCE: Journal of Chemical Research, Synopses (1995), (7), 290-1

CODEN: JRPSDC; ISSN: 0308-2342

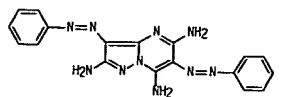
PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 123:285946

GRAPHIC IMAGE:



ABSTRACT:

A one-step synthesis of pyrazolo[1.5-a]pyrimidine, benzimidazo[1.5-a]pyrimidine, 1,2,4-triazolo[1.5-a]pyrimidine and benzimidazo[1.5-a]pyridine derivs. is reported. For example, the cyclocondensation of (phenylhydrazono)propanedinitrile with cyanoacetic acid hydrazide gave the Pyrazolo[2.3-a]pyrimidinetriamine 1.

IT 3656-04-0 6975-75-3

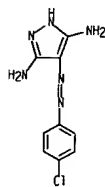
RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of azolo[1.5-a]pyrimidines and benzimidazo[1.5-a]pyridines)

RN 3656-04-0 CAPLUS

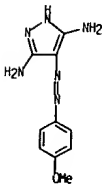
CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 29 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 6975-75-3 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-[(4-methoxyphenyl)azo]- (9CI) (CA INDEX NAME)



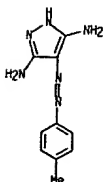
IT 3656-03-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of azolo[1.5-a]pyrimidines and benzimidazo[1.5-a]pyridines)

RN 3656-03-9 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-[(4-methylphenyl)azo]- (9CI) (CA INDEX NAME)



L4 ANSWER 29 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

L4 ANSWER 30 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1995:550458 CAPLUS

DOCUMENT NUMBER: 123:62369

TITLE: Corrosion and corrosion inhibition of Delta steel in acid chloride solutions containing pyrazole compound

AUTHOR(S): Allah, A. G. Gad; Tamous, H. M.

CORPORATE SOURCE: Dep. Chem., Cairo Univ., Giza, Egypt

SOURCE: Bulletin of Electrochemistry (1995), 11(4), 178-87

CODEN: BUELE6; ISSN: 0256-1654

PUBLISHER: Central Electrochemical Research Institute

DOCUMENT TYPE: Journal

LANGUAGE: English

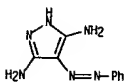
ABSTRACT: The corrosion and corrosion inhibition of Delta steel in HCl solns. in the absence and presence of 4-arylazopyrazolo-3,5-diamine was investigated by wt. loss, titrimetric and spectral anal. and polarization measurements. The corrosion rate increases with increase of acid concn. and immersion time. Also, the corrosion of steel is a function of H⁺ ion concn. rather than Cl⁻ ion. The pyrazole compd. was found to inhibit the corrosion of steel in acid chloride media and behave as anodic inhibitor. The mechanism of inhibition of the tested compd. was detd. and illustrated.

IT 3656-02-8

RL: OCU (Occurrence, unclassified); PRP (Properties); OCCU (Occurrence) (corrosion and corrosion inhibition of Delta steel in acid chloride solns. contg.)

RN 3656-02-8 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9C1) (CA INDEX NAME)



L4 ANSWER 31 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1995:219679 CAPLUS

DOCUMENT NUMBER: 122:160536

TITLE: Novel synthesis of imidazo[1,2-b]pyrazoles and their fused derivatives

AUTHOR(S): Sherif, Sherif M.; Hussein, Abdel-Haleem M.; El-Kholy, Yehya M.

CORPORATE SOURCE: Fac. Sci., Univ. Cairo, Giza, Egypt

SOURCE: Archives of Pharmacol Research (1994), 17(5), 298-303

CODEN: APHRDQ; ISSN: 0253-6269

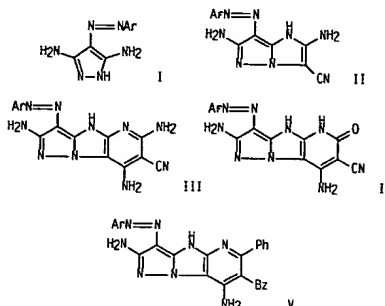
PUBLISHER: Pharmaceutical Society of Korea

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 122:160536

GRAPHIC IMAGE:



ABSTRACT:

4-Arylazo-1H-pyrazolo-3,5-diamines I [R = p-R¹-C₆H₄; R¹ = H, MeO, Cl] reacted with bromomalononitrile to yield the corresponding imidazo[1,2-b]pyrazoles II. The latter reacted with some active methylene compds. and with alpha-cinnamionitriles to afford the corresponding pyrazoloimidazopyridines III-V. Compds. II reacted with each of formic acid, formamide, trichloroacetonitrile and with guanidine to yield the corresponding

L4 ANSWER 31 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

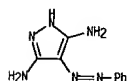
pyrazoloimidazopyrimidines.

IT 3656-02-8 3656-04-0 6975-75-3

RL: RCT (Reactant); RACT (Reactant or reagent) (reaction with bromomalononitrile)

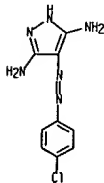
RN 3656-02-8 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9C1) (CA INDEX NAME)



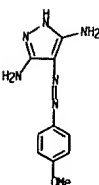
RN 3656-04-0 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]- (9C1) (CA INDEX NAME)



RN 6975-75-3 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-[(4-methoxyphenyl)azo]- (9C1) (CA INDEX NAME)



L4 ANSWER 32 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1995:84096 CAPLUS

DOCUMENT NUMBER: 122:31450

TITLE: Utility of polyfunctionally substituted heterocyclic compounds in the synthesis of new pyrazolopyrimidines and their annelated derivatives

AUTHOR(S): Elghandour, Ahmed H. H.

CORPORATE SOURCE: Faculty Sciences, Cairo University, Egypt

SOURCE: Zagazig Journal of Pharmaceutical Sciences (1994), 3(1), 1-7

CODEN: ZJPSEV; ISSN: 1110-5089

DOCUMENT TYPE: Journal

LANGUAGE: English

ABSTRACT:

3,5-Diazino-4-arylazopyrazole derivs. were treated with 1,1-dicyanoprop-1-ene to yield pyrazolo[5,1-b]pyrimidines IIa, b. Compd. II was treated with .alpha.-substituted cinnamionitriles to give fused pyrazole derivs. Thienopyrazolopyrimidines VI were obtained via the reaction of II with sulfur. The latter compds. were treated with benzoyl and acetyl isothiocyanates to afford thiourea derivs. VI underwent dipolar cycloaddn. reaction with N-phenylmaleimide and acrylonitrile to yield fused pyrazole derivs. Nitration and bromination of the thieno compd. VI afforded the corresponding nitro and bromo derivs. All structures were established on the basis of elemental analyses and spectral data.

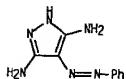
IT 3656-02-8 3656-04-0

RL: RCT (Reactant): RACT (Reactant or reagent)

(synthesis of pyrazolopyrimidines and their annelated derivs.)

RN 3656-02-8 CAPLUS

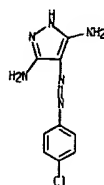
CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)



RN 3656-04-0 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 32 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



L4 ANSWER 33 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1994:534083 CAPLUS

DOCUMENT NUMBER: 121:134083

TITLE: Reactions with heterocyclic amidines: synthesis of pyrazolo[3,4-e]thiazepine, pyrazolo[1,5-c] 1,2,4-triazine and pyrazolo[1,5-a]pyrimidine derivatives

AUTHOR(S): Sofan, M. A.; El-Taweel, F. M. A.; Abu El-Maat, T. M.; El-Agamey, A. A.

CORPORATE SOURCE: Department of Chemistry, Faculty of Science, New Damietta, Egypt

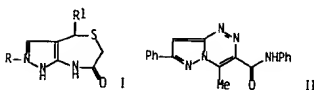
SOURCE: Pharmazie (1994), 49(7), 482-6

CODEN: PHARAT; ISSN: 0031-7144

DOCUMENT TYPE: Journal

LANGUAGE: English

GRAPHIC IMAGE:



ABSTRACT:

Condensation of 5-aminopyrazoles arom. aldehydes in C2H5OH/piperidine gave (imino)(arylidene)pyrazolines. Treatment of these intermediates with mercaptoacetic acid gave pyrazolo[3,4-e]-1,4-thiazepines I (R, R1 = substituted phenyl). Diazoitized aminopyrazole coupled with acetacetanilide to afford the pyrazolo[1,5-c] 1,2,4-triazine II. The synthesis of other pyrazolo[1,5-c]-1,2,4-triazines and pyrazolo[1,5-a]pyrimidines was reported.

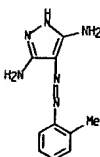
IT 57770-59-9P

RL: SPN (Synthetic preparation): PREP (Preparation)

(prepn. of, as intermediate for pyrazolo[1,5-a]pyrimidine)

RN 57770-59-9 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-[(2-methylphenyl)azo]- (9CI) (CA INDEX NAME)



L4 ANSWER 33 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

L4 ANSWER 34 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1994:523810 CAPLUS

DOCUMENT NUMBER: 121:123810

TITLE: Structure and complexation equilibria of metal(II) ions with 4-arylazopyrazoles

AUTHOR(S): Akrallah, Ahmed H.; Awadallah, Ramadan M.; El-Haty, Esam Y.

CORPORATE SOURCE: Fac. Sci., Assiut Univ., Aswan, Egypt
SOURCE: Transition Metal Chemistry (Dordrecht, Netherlands) (1994), 19(2), 173-7

CODEN: TMCHDN; ISSN: 0340-4285

DOCUMENT TYPE: Journal

LANGUAGE: English

ABSTRACT: Octahedral mononuclear and tetrahedral binuclear 4-arylazo-3,5-diaminopyrazole complexes of Cu(II), Ni(II), Co(II) and Mn(II) were prep'd. and characterized by elemental anal., cond. measurements and by IR, ¹H NMR and electronic spectroscopy. Complexation equill., stoichiometry and stability consts. were measured in 40% (vol./vol.) EtOH-H₂O medium and I = 0.1 mol dm⁻³ NaClO₄. In mild acidic media, the ligands behave as neutral NN' bidentates, while in alk. media they act as N2N2' tetradentate ligands.

IT 3656-02-8, 3,5-Diamino-4-phenylazopyrazole 3656-03-9.

3,5-Diamino-4-(4'-tolylazo)pyrazole 140651-21-4.

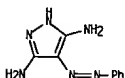
3,5-Diamino-4-(4'-carboxyphenylazo)pyrazole

RL: RCT (Reactant): RACT (Reactant or reagent)

(reaction of, with transition metals)

RN 3656-02-8 CAPLUS

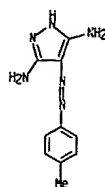
CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)



RN 3656-03-9 CAPLUS

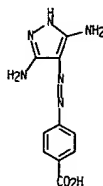
CN 1H-Pyrazole-3,5-diamine, 4-[(4-methylphenyl)azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 34 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 140651-21-4 CAPLUS

CN Benzoic acid, 4-[(3,5-diamino-1H-pyrazol-4-yl)azo]- (9CI) (CA INDEX NAME)



L4 ANSWER 36 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1994:409222 CAPLUS

DOCUMENT NUMBER: 121:9222

TITLE: Synthesis of some new benzothiazolylazopyrazoles and benzothiazolylazopyrimidines

AUTHOR(S): Liu, Bo; Gao, Huiqing; Liu, Jinhua; Zhou, Xunjun

CORPORATE SOURCE: Dep. Chem. Sci. Technol., Hangzhou Univ., Hangzhou, 310028, Peop. Rep. China

SOURCE: Youji Huaxue (1994), 14(2), 206-10

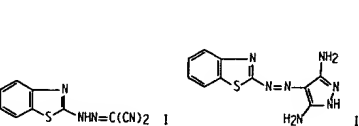
CODEN: YCHHDX; ISSN: 0253-2786

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

OTHER SOURCE(S): CASREACT 121:9222

GRAPHIC IMAGE:



ABSTRACT:

Coupling the diazonium salts of 2-aminobenzothiazoles with malononitrile gave 2-(benzothiazolylhydrazono)malononitriles which then reacted with hydrazine hydrate, phenylhydrazine, and guanidine nitrate to form 4'-(benzothiazolyl-2-azo)-3',5'-diaminopyrazoles, 4'-(benzothiazolyl-2-azo)-3',5'-diamino-2'-phenylpyrazoles and 5'-(benzothiazolyl-2-azo)-2',4',6'-triaminopyrimidines resp. E.g., refluxing malononitrile I with hydrazine hydrate in EtOH gave 92% pyrazole II.

IT 153471-52-4P 153471-53-5P 153471-54-6P

153471-57-9P 155409-15-7P 155409-16-8P

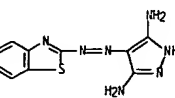
155409-17-9P 155409-18-0P

RL: SPN (Synthetic preparation): PREP (Preparation)

(prepn. of)

RN 153471-52-4 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-(2-benzothiazolylazo)- (9CI) (CA INDEX NAME)



L4 ANSWER 35 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1994:483163 CAPLUS

DOCUMENT NUMBER: 121:83163

TITLE: Synthesis of 2-benzothiazolylazo-3,5-disubstituted pyrazoles

AUTHOR(S): Liu, Bo; Gao, Huiqing; Liu, Jinhua; Zhou, Xunjun

CORPORATE SOURCE: Dep. Chem. Sci. Technol., Hangzhou Univ., Hangzhou, Peop. Rep. China

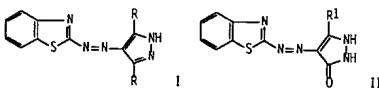
SOURCE: Hangzhou Daxue Xuebao. Ziran Kexueban (1994), 21(1), 63-7

CODEN: HHHPD7; ISSN: 0253-3618

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

GRAPHIC IMAGE:



ABSTRACT:

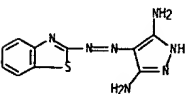
Benzothiazolylazopyrazoles I (R = Me, NH₂) and benzothiazolylazopyrazolinones II (R1 = Me, NH₂) were prep'd. starting from 2-aminobenzothiazole. The complexation of I and II with Pd²⁺ and other metal ions were reported.

IT 153471-52-4P

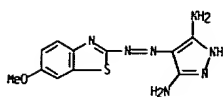
RL: SPN (Synthetic preparation): PREP (Preparation)
(prepn. and complex formation of, with metal ions)

RN 153471-52-4 CAPLUS

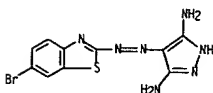
CN 1H-Pyrazole-3,5-diamine, 4-(2-benzothiazolylazo)- (9CI) (CA INDEX NAME)



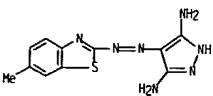
L4 ANSWER 36 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)
 RN 153471-53-5 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(6-methoxy-2-benzothiazolyl)azo]- (9CI) (CA INDEX NAME)



RN 153471-54-6 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(6-bromo-2-benzothiazolyl)azo]- (9CI) (CA INDEX NAME)

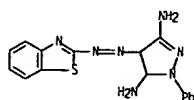


RN 153471-57-9 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(6-methyl-2-benzothiazolyl)azo]- (9CI) (CA INDEX NAME)

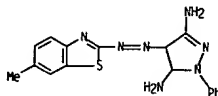


RN 155409-15-7 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-(2-benzothiazolylazo)-4,5-dihydro-1-phenyl- (9CI) (CA INDEX NAME)

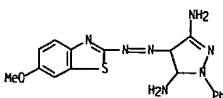
L4 ANSWER 36 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



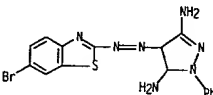
RN 155409-16-8 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4,5-dihydro-4-[(6-methyl-2-benzothiazolyl)azo]-1-phenyl- (9CI) (CA INDEX NAME)



RN 155409-17-9 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4,5-dihydro-4-[(6-methoxy-2-benzothiazolyl)azo]-1-phenyl- (9CI) (CA INDEX NAME)



RN 155409-18-0 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(6-bromo-2-benzothiazolyl)azo]-4,5-dihydro-1-phenyl- (9CI) (CA INDEX NAME)



L4 ANSWER 36 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

L4 ANSWER 37 OF 87 CAPLUS COPYRIGHT 2003 ACS

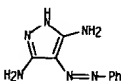
ACCESSION NUMBER: 1994:323476 CAPLUS
 DOCUMENT NUMBER: 120:323476
 TITLE: Novel synthesis of mercaptopurine and pentaza-as-indacene analogs: reaction of [bis(methylthio)methylene]malononitrile and ethyl 2-cyano-3,3-bis(methylthio)acrylate with 5-aminopyrazoles
 AUTHOR(S): Elgemei, Galal Eldin Hamza; El-Ezbawy, Samia E.; Ali, Hosny A.; Mansour, Abdel Kader
 CORPORATE SOURCE: Fac. Sci., Cairo Univ., Bani Suef, Egypt
 SOURCE: Bulletin of the Chemical Society of Japan (1994), 67(3), 738-41
 CODEN: BCSJAB; ISSN: 0009-2673
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 120:323476

ABSTRACT: A novel synthesis of 7-methylthiopurazolo[1,5-a]pyrimidines via reaction of [bis(methylthio)methylene]malononitrile and Et 2-cyano-3,3-bis(methylthio)acrylate with 5-aminopyrazoles is reported and the synthetic potential of the method is demonstrated.

IT 3656-02-8 3656-03-9 3656-04-0
 6975-75-3 57770-59-9 57770-60-2
 62679-03-2 128044-29-1 128044-30-4
 128044-31-5 128044-32-6

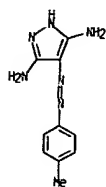
RL: RCT (Reactant); RACT (Reactant or reagent)
 (cyclization of, with [bis(methylthio)methylene]malononitrile and cyanobis(methylthio)acrylate)

RN 3656-02-8 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)

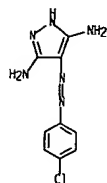


RN 3656-03-9 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-methylphenyl)azo]- (9CI) (CA INDEX NAME)

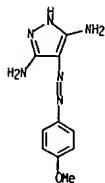
L4 ANSWER 37 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 3656-04-0 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]- (9CI) (CA INDEX NAME)

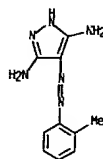


RN 6975-75-3 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-[(4-methoxyphenyl)azo]- (9CI) (CA INDEX NAME)

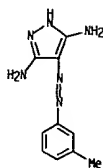


L4 ANSWER 37 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 57770-59-9 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-[(2-methylphenyl)azo]- (9CI) (CA INDEX NAME)

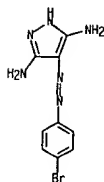


RN 57770-60-2 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-[(3-methylphenyl)azo]- (9CI) (CA INDEX NAME)

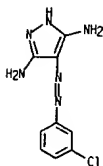


RN 62679-03-2 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-[(4-bromophenyl)azo]- (9CI) (CA INDEX NAME)

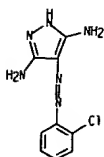
L4 ANSWER 37 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 128044-29-1 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-[(3-chlorophenyl)azo]- (9CI) (CA INDEX NAME)

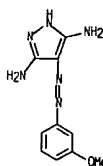


RN 128044-30-4 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-[(2-chlorophenyl)azo]- (9CI) (CA INDEX NAME)

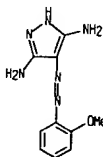


RN 128044-31-5 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-[(3-methoxyphenyl)azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 37 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 128044-32-6 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-[(2-methoxyphenyl)azo]- (9CI) (CA INDEX NAME)



L4 ANSWER 38 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1994:217498 CAPLUS

DOCUMENT NUMBER: 120:217498

TITLE: Hydrazonyl halides in heterocyclic chemistry: synthesis of new polyfunctionally substituted pyrazoles, pyridazines and pyrazolo[3,4-d]pyridazines

AUTHOR(S): Elghandour, Ahmed H. H.

CORPORATE SOURCE: Fac. Sci., Cairo Univ., Giza, Egypt

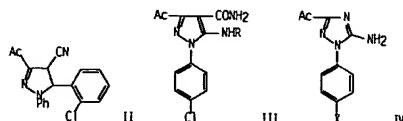
SOURCE: Journal of Chemical Research, Synopses (1993), (9), 358-9

CODEN: JRPSDC; ISSN: 0308-2342

DOCUMENT TYPE: Journal

LANGUAGE: English

GRAPHIC IMAGE:



ABSTRACT:

AcC(:NHR)Cl I (Ar = Ph, substituted Ph) reacted with active methylene reagents to give pyrazole derivs. II and III (R = H); the latter were acylated by AcCl and BzCl to give III (R = Ac, Bz). Treating I (Ar = 4-MeOC6H4, 4-ClC6H4) with NH2CN gave triazoles IV (X = MeO, Cl) which (X = MeO) were acylated by AcCl and BzCl to give the corresponding acylamino derivs. and by AcNCS to give the corresponding acetylthioureido deriv. Addnl. obtained were pyrazolinones, tetrazoles, and pyridazinones.

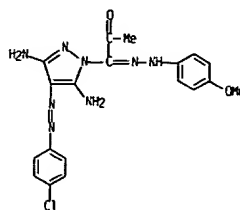
IT 153937-47-4P 153937-48-5P

RL: SPN (Synthetic preparation): PREP (Preparation) (prepn. of)

RN 153937-47-4 CAPLUS

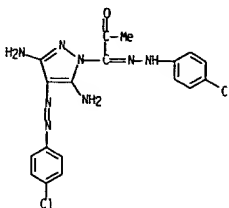
CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]-1-[1-[(4-methoxyphenyl)hydrazono]-2-oxopropyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 38 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 153937-48-5 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]-1-[1-[(4-chlorophenyl)hydrazono]-2-oxopropyl]- (9CI) (CA INDEX NAME)



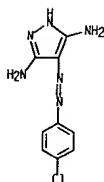
IT 3656-04-0

RL: RCT (Reactant); RACT (Reactant or reagent) (reaction with aryloxopropanehydrazonyl chlorides)

RN 3656-04-0 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 38 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



L4 ANSWER 39 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1994:181887 CAPLUS

DOCUMENT NUMBER: 120:181887

TITLE: Study on the color reaction of palladium with 4-(6'-methylbenzothiazolyl)-2'-azo)-3,5-diaminopyrazole and its application

AUTHOR(S): Zhu, Youyu; Liu, Jinhua; Liu, Po; Zhou, Xunjun

CORPORATE SOURCE: Dep. Chem., Hangzhou Univ., Hangzhou, 310028, Peop. Rep. China

SOURCE: Huaxue Shiji (1993), 15(5), 274-6

CODEN: HUSHDR; ISSN: 0258-3283

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

ABSTRACT:

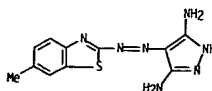
This paper reports the properties of six new benzothiazolylazopyrazoles. The properties and color reaction of 4-(6'-methylbenzothiazolyl)-2'-azo)-3,5-diaminopyrazole (MBTAP) with palladium have been studied in detail. Pd reacts with MBTAP to form a stable complex in the presence of nonionic surfactant Brij 35. The max. absorption of the complex is at 510 nm, its apparent molar absorptivity is 3.01 times 10^4 L mol^-1 cm^-1. The compn. of Pd:MBTAP is 1:2. Beer's law is obeyed for Pd in the range of 0. approx. 14 .mu.g/25 mL. With citric acid as masking agent, common ions do not interfere. The method has been applied to the detn. of palladium in Pd-contg. catalyst without prior sepn.

IT 153471-57-9

RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (in palladium detn. by spectrophotometry)

RN 153471-57-9 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-[(6-methyl-2-benzothiazolyl)azo]- (9CI) (CA INDEX NAME)



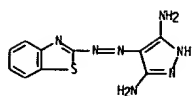
IT 153471-52-40. transition metal complexes 153471-53-50. transition metal complexes 153471-54-60. transition metal complexes

RL: PRP (Properties) (visible spectra of)

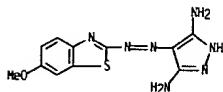
RN 153471-52-4 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-(2-benzothiazolylazo)- (9CI) (CA INDEX NAME)

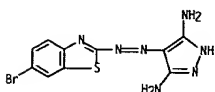
L4 ANSWER 39 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 153471-53-5 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-[(6-methoxy-2-benzothiazolyl)azo]- (9CI) (CA INDEX NAME)

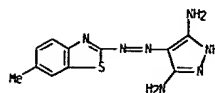


RN 153471-54-6 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-[(6-bromo-2-benzothiazolyl)azo]- (9CI) (CA INDEX NAME)



IT 153471-57-90, palladium complex
RL: PRP (Properties)
(visible spectrum of)
RN 153471-57-9 CAPLUS
CN 1H-Pyrazole-3,5-diamine, 4-[(6-methyl-2-benzothiazolyl)azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 39 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



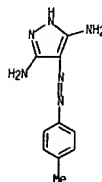
L4 ANSWER 40 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)
RN 1018-78-6
CNF C12 H4 N2 O2



RN 153163-04-3 CAPLUS
CN 2,3-Naphthalenedicarbonitrile, 1,4-dihydro-1,4-dioxo-, compd. with 4-[(4-methylphenyl)azo]-1H-pyrazole-3,5-diamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 3656-03-9
CMF C10 H12 N6



CM 2

CRN 1018-78-6
CMF C12 H4 N2 O2



L4 ANSWER 40 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1994:133585 CAPLUS

DOCUMENT NUMBER: 120:133585

TITLE: Spectroscopic and thermodynamic studies on charge-transfer complexes of aminopyrazoles and 2,3-dicyano-1,4-naphthoquinones

AUTHOR(S): Ibrahim, Yusria R.

CORPORATE SOURCE: Fac. Sci., El-Minia Univ., El-Minia, Egypt

SOURCE: Bulletin of the Faculty of Science, Assiut University (1992), 21(2), 35-44

CODEN: BSAUDW; ISSN: 0366-4740

DOCUMENT TYPE: Journal

LANGUAGE: English

ABSTRACT:

The spectra of charge-transfer CT-complexes formed by the interaction of 2,3-dicyano-1,4-naphthoquinone as .pi.-acceptor with several substituted aminopyrazoles as donors were detd. The role of the mol. structure of the donors on their basicities is discussed. The thermodyn. properties of some CT-complexes are reported. Some cryst. CT-complexes are also prepd. and characterized.

IT 153163-03-2 153163-04-3 153163-05-4

153163-06-5

RL: PRP (Properties)

(UV spectrum and formation const. of)

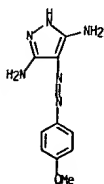
RN 153163-03-2 CAPLUS

CN 2,3-Naphthalenedicarbonitrile, 1,4-dihydro-1,4-dioxo-, compd. with 4-[(4-methoxyphenyl)azo]-1H-pyrazole-3,5-diamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 6975-75-3

CMF C10 H12 N6 O

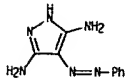


CM 2

L4 ANSWER 40 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)
 RN 153163-05-4 CAPLUS
 CN 2,3-Naphthalenedicarbonitrile, 1,4-dihydro-1,4-dioxo-, compd. with
 4-(phenylazo)-1H-pyrazole-3,5-diamine (1:1) (9C1) (CA INDEX NAME)

CM 1

CRN 3656-02-8
 CHF C9 H10 N6



CM 2

CRN 1018-78-6
 CHF C12 H4 N2 O2

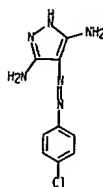


RN 153163-06-5 CAPLUS
 CN 2,3-Naphthalenedicarbonitrile, 1,4-dihydro-1,4-dioxo-, compd. with
 4-[(4-chlorophenyl)azo]-1H-pyrazole-3,5-diamine (1:1) (9C1) (CA INDEX NAME)

CM 1

CRN 3656-04-0
 CHF C9 H9 Cl N6

L4 ANSWER 40 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



CM 2

CRN 1018-78-6
 CHF C12 H4 N2 O2

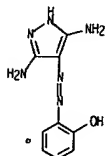


L4 ANSWER 41 OF 87 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1994-94178 CAPLUS
 DOCUMENT NUMBER: 120-94178
 TITLE: Spectrophotometric study of the complexation
 equilibria of vanadium(V) with 3,5-diaminoazapyrazole
 derivatives
 AUTHOR(S): Arifien, A. E.
 CORPORATE SOURCE: Chem. Dep., Fac. Sci., Aswan, Egypt
 SOURCE: Asian Journal of Chemistry (1992), 4(4), 804-11
 CODEN: AJCHEM; ISSN: 0970-7077
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 ABSTRACT:

The acid-base characteristics of 3,5-diamino-4-[o-hydroxyphenylazo]-pyrazole (DAAZP) were studied spectrophotometrically in water - DMSO media. The complexes of vanadium(V) with this reagent in solns. are described and evaluated. The study of the behavior of vanadium in the presence of equimolar concns. or in solns. contg. metal or ligand excess gave evidence for the formation of two types of species with stoichiometric ratios 1:2 (M:L) depending on the pH of the medium. A spectrophotometric method has been established for the detn. of micro amts. of vanadium(V) with DAAZP at pH = 4.0 ($\lambda_{\text{max}} = 450 \text{ nm}$, $\epsilon = 3.5 \times 10^4 \text{ l mol}^{-1} \text{ cm}^{-1}$).

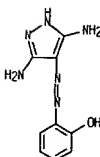
IT 140651-20-3D, vanadium complexes
 RL: PRP (Properties)
 (equil. and stability consts. and spectra of)

RN 140651-20-3 CAPLUS
 CN Phenol, 2-[(3,5-diamino-1H-pyrazol-4-yl)azo]- (9C1) (CA INDEX NAME)



IT 140651-20-3
 RL: ANST (Analytical study)
 (in detn. of pentavalent vanadium by spectrophotometry)
 RN 140651-20-3 CAPLUS
 CN Phenol, 2-[(3,5-diamino-1H-pyrazol-4-yl)azo]- (9C1) (CA INDEX NAME)

L4 ANSWER 41 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

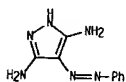


L4 ANSWER 42 OF 87 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1994:8545 CAPLUS
 DOCUMENT NUMBER: 120:8545
 TITLE: Chemical interactions between aminopyrazoles and 2,3-dicyano-1,4-naphthoquinone
 AUTHOR(S): Hassan, Alaa A.; Mohamed, Nasr K.; Ibrahim, Yusria R.; Mourad, Aboul Fetouh F.
 CORPORATE SOURCE: Fac. Sci., El-Minia Univ., El-Minia, Egypt
 SOURCE: Liebigs Annalen der Chemie (1993). (6), 695-7
 CODEN: LACHDL; ISSN: 0170-2041
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 120:8545
 GRAPHIC IMAGE:

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

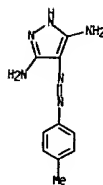
ABSTRACT:
 2,3-Dicyano-1,4-naphthoquinone (DCNQ), the easily obtainable isomer of 2-(dicyanomethylene)indane-1,3-dione (CNIND), reacts with arylazo-, pyridylazo- and arylaminopyrazoles I (R = Ph, 4-MeC₆H₄, 4-MeOC₆H₄, 4-ClC₆H₄, 2-pyridyl) and II via charge-transfer (CT) complexation to yield pyrazolo[2,3-a]quinazolinones III and IV and pyrazolo[2,3-a]quinazolinyl acetates V. Furthermore, aminopyrazole II reacts with 2,3-dichloronaphthoquinone (DCNQ) to afford the naphthoquinoidazopyrazole VI. The mechanism of the formation of products III and V is discussed.

IT 3656-02-8 3656-03-9 3656-04-0
 6975-75-3 151293-14-0
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with dicyanonaphthoquinone, via charge-transfer complexation)
 RN 3656-02-8 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)

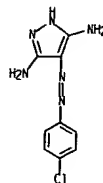


RN 3656-03-9 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-((4-methylphenyl)azo)- (9CI) (CA INDEX NAME)

L4 ANSWER 42 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

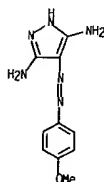


RN 3656-04-0 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-((4-chlorophenyl)azo)- (9CI) (CA INDEX NAME)

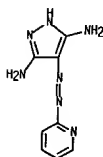


RN 6975-75-3 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-((4-methoxyphenyl)azo)- (9CI) (CA INDEX NAME)

L4 ANSWER 42 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



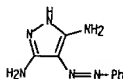
RN 151293-14-0 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-((2-pyridinyl)azo)- (9CI) (CA INDEX NAME)



L4 ANSWER 43 OF 87 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1993:679999 CAPLUS
 DOCUMENT NUMBER: 119:279999
 TITLE: Polarographic and spectrophotometric study of complexes of nickel(2+) and zinc(2+) with 3,5-di-amino-4-arylazo-pyrazole
 AUTHOR(S): Helmy, Ahlam M. Abbas
 CORPORATE SOURCE: Fac. Sci., Elmansoura Univ., Elmansoura, Egypt
 SOURCE: Scientist of Physical Sciences (1993). 5(1), 60-5
 CODEN: SPSCEV; ISSN: 0970-9150
 DOCUMENT TYPE: Journal
 LANGUAGE: English

ABSTRACT:
 The formation of complexes of 3,5-diamino-4-arylazo-pyrazole with Ni²⁺ and Zn²⁺ was traced spectrophotometrically and polarog. The results showed the predominance of a mono-ligated complexes in both cases. The stability const. was calcd. from the exptl. results where the Ni²⁺ complex showed to be more stable than that of the Zn²⁺ one.

IT 3656-02-80, nickel and zinc complexes
 RL: PRP (Properties)
 (stability consts. of)
 RN 3656-02-8 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)



L4 ANSWER 44 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1993:530526 CAPLUS

DOCUMENT NUMBER: 119:130526

TITLE: Spectrophotometric studies on copper(II) and palladium(II) complexes with 5-amino-4-arylazopyrazoles

AUTHOR(S): Abdel Razik, A.

CORPORATE SOURCE: Chem. Dep., Cairo Univ., Giza, Egypt

SOURCE: International Journal of Chemistry (1992), 3(2), 35-45

CODEN: IJUCEW

DOCUMENT TYPE: Journal

LANGUAGE: English

ABSTRACT:

A systematic spectrophotometric study on the complexation of Cu(II) and Pd(II) ions with 5-amino-4-aryla-3-phenylpyrazole, was carried out. Study of the stoichiometry of the complexes in ethanolic solns. by continuous variation, molar ratio and slope ratio methods indicated the formation of 1:2 and 1:1 complexes. Highly stable chelates are formed with the Cu(II) and Pd(II) 5-amino-arylazopyrazoles having stability const. values of the order 10⁸ and 10⁴ resp. Factors influencing the stability of the complexes are investigated. Spectrophotometric measurements suggest utilization of the studied ligands as useful means for microdetn. of Cu(II) and Pd(II) ions in ethanolic aq. media.

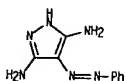
IT 3656-02-8D, copper and palladium complexes

RL: ANST (Analytical study)

(absorbance and stability consts. of)

RN 3656-02-8 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)



IT 3656-02-8

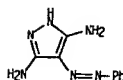
RL: ANST (Analytical study)

(in detn. of copper and palladium by spectrophotometry and titrimetry)

RN 3656-02-8 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)

L4 ANSWER 44 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



L4 ANSWER 45 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1993:449338 CAPLUS

DOCUMENT NUMBER: 119:49338

TITLE: 2-(Acetyl)cinnamoyl(dimethylaminopropionyl)indan-1,3-dione in the synthesis of heterocycles of pharmaceutical interest

AUTHOR(S): Hammouda, M.; Metwally, M. A.; Abou-Zeid, Z. M.;

Zimaity, T.

CORPORATE SOURCE: Fac. Sci., Mansoura Univ., Mansoura, Egypt

SOURCE: Indian Journal of Chemistry, Section B: Organic

Chemistry Including Medicinal Chemistry (1993),

32B(4), 440-4

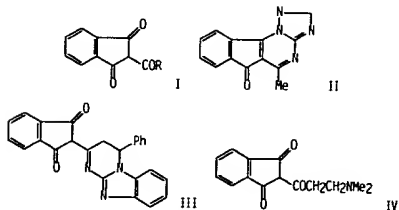
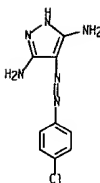
CODEN: IJCSDB; ISSN: 0376-4699

DOCUMENT TYPE: Journal

LANGUAGE: English

GRAPHIC IMAGE:

L4 ANSWER 45 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



ABSTRACT:

Acetyl- and cinnamoylindandiones I (R = Me, CH₂CHPh) react with aminoazoles, such as 3-amino-1,2,4-triazole and 2-aminobenzimidazole, to give indenoazopyrimidines, e.g., II, and (1,3-dioxindan-2-yl)azopyrimidines, e.g., III, resp. The reactivity of 2-(3-dimethylaminopropionyl)indan-1,3-dione (IV) toward PhSH and MeCSNH₂ was studied. The amine-exchange reaction of IV.HCl with some pharmaceutically active amines was also examined.

IT 3656-04-0

RL: RCT (Reactant); RACT (Reactant or reagent)

(cyclocondensation of, with acetyl- and cinnamoylindandiones)

RN 3656-04-0 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 46 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1992:633963 CAPLUS

DOCUMENT NUMBER: 117:233963

TITLE: Behavior of 3,5-diaminopyrazoles towards activated double bond systems: novel synthesis of pyrazolo[1,5-a]pyridines

AUTHOR(S): Fathy, H. M.; El-Said, M. k.; El-Bazza, Z. E.; Faddah, L. M.

CORPORATE SOURCE: Photochem. Lab., Natl. Res. Cent., Cairo, Egypt
SOURCE: Egyptian Journal of Pharmaceutical Sciences (1992), 33(1-2), 1-9

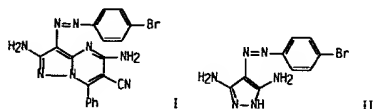
CODEN: EJPSBZ; ISSN: 0301-5068

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 117:233963

GRAPHIC IMAGE:



ABSTRACT:

Fifteen new pyrazolo[1,5-a]pyrimidine contg. substituted-Ph and naphthyl moieties, e.g., I were prepd. by cyclizing pyrazoles, e.g., II, with methylenecyanothioacetamides, e.g., Ph2CH:C(CN)SCNH2. Some compds. were evaluated as antiinflammatory agents and indicated a great effect. Other compds. were tested as antifungal and antibacterial agents and some of them indicated a high activity.

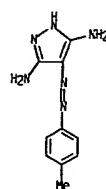
IT 3656-03-9 3656-04-0 6975-75-3
62679-03-2 62679-04-3 144380-36-9

RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclization of, with arylmethylenecyanothioacetamides)

RN 3656-03-9 CAPLUS

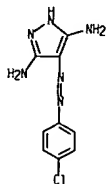
CN 1H-Pyrazole-3,5-diamine, 4-[(4-methylphenyl)azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 46 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



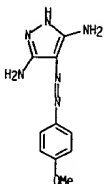
RN 3656-04-0 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]- (9CI) (CA INDEX NAME)



RN 6975-75-3 CAPLUS

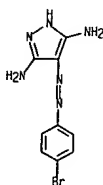
CN 1H-Pyrazole-3,5-diamine, 4-[(4-methoxyphenyl)azo]- (9CI) (CA INDEX NAME)



L4 ANSWER 46 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

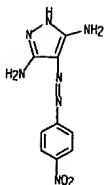
RN 62679-03-2 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-[(4-bromophenyl)azo]- (9CI) (CA INDEX NAME)



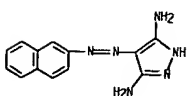
RN 62679-04-3 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-[(4-nitrophenyl)azo]- (9CI) (CA INDEX NAME)



RN 144380-36-9 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-[(2-naphthalenyl)azo]- (9CI) (CA INDEX NAME)



L4 ANSWER 47 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1992:583848 CAPLUS

DOCUMENT NUMBER: 117:183848

TITLE: Spectrophotometric study of the complexation equilibria of vanadium(V) with 3,5-diaminoazapyrazole derivatives

AUTHOR(S): Arifien, A. E.

CORPORATE SOURCE: Chem. Dep., Fac. Aswan, Aswan, Egypt

SOURCE: Asian Journal of Chemistry (1992), 4(4), 804-11

CODEN: AJCHEM; ISSN: 0970-7077

DOCUMENT TYPE: Journal

LANGUAGE: English

ABSTRACT:

The acid-base characteristics of 3,5-diamino-4-[o-hydroxyphenylazo]pyrazole (DAAZP) were studied spectrophotometrically in water-dimethyl sulfoxide media. The complexes of vanadium(V) with this reagent liable to occur in solns. are described and evaluated. The study of the behavior of vanadium in the presence of equimolar concns. or in soln. contg. metal or ligand excess gave evidence for the formation of two types of species with stoichiometric ratios 1:2 (M:L) depending on the pH of the medium. A spectrophotometric method for the detn. of microamounts of vanadium(V) with DAAZP has been established at pH = 4.0 (λ_{max} = 450 nm, ϵ = 3.5 $\times 10^4$ L mol⁻¹ cm⁻¹).

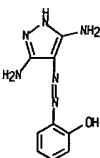
IT 140651-20-3

RL: ANST (Analytical study)

(acid-base consts. and use of, in vanadium trace detn. by spectrophotometry)

RN 140651-20-3 CAPLUS

CN Phenol, 2-[(3,5-diamino-1H-pyrazol-4-yl)azo]- (9CI) (CA INDEX NAME)



IT 140651-20-30, vanadium complexes

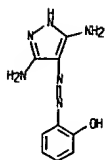
RL: PRP (Properties)

(complexation equil. and visible spectra of)

RN 140651-20-3 CAPLUS

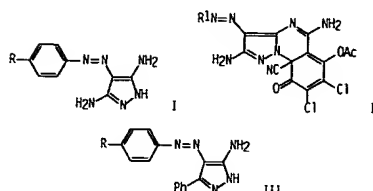
CN Phenol, 2-[(3,5-diamino-1H-pyrazol-4-yl)azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 47 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



L4 ANSWER 48 OF 87 CAPLUS COPYRIGHT 2003 ACS

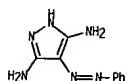
ACCESSION NUMBER: 1992:571363 CAPLUS
 DOCUMENT NUMBER: 117:171363
 TITLE: 3-Amino-4-arylazopyrazoles: CT complexation and a novel synthesis of pyrazolo[2,3-a]quinazoles
 AUTHOR(S): Ibrahim, Yusrria R.; Hassan, Alaa A.; Mohamed, Nasr K.; Mourad, Aboul Fetouh E.
 CORPORATE SOURCE: Fac. Sci., El-Minia Univ., El-Minia, Egypt
 SOURCE: Archiv der Pharmazie (Weinheim, Germany) (1992), 325(7), 389-92
 CODEN: ARPMAS; ISSN: 0365-6233
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 117:171363
 GRAPHIC IMAGE:



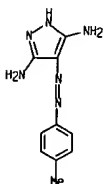
ABSTRACT:
 3,5-Diamino-4-arylazopyrazoles I (R = H, Cl, Me, OMe) form charge-transfer (CT) complexes with chloranil, fluoranil and react with 2,3-dicyano-5,6-dichlorobenzquinone (DDQ) to yield pyrazolo[2,3-a]quinazolines II (R1 = 4-C6H4R; R as above), 5-Amino-3-phenyl-4-arylazopyrazoles III (R as above) form CT-complexes only with DDQ.

IT 3656-02-8 3656-03-9 3656-04-0
 6975-75-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (cyclocondensation with DDQ and charge transfer complexation of)
 RN 3656-02-8 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)

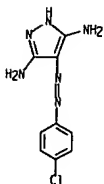
L4 ANSWER 48 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 3656-03-9 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-methylphenyl)azo]- (9CI) (CA INDEX NAME)

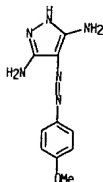


RN 3656-04-0 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]- (9CI) (CA INDEX NAME)



RN 6975-75-3 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-methoxyphenyl)azo]- (9CI) (CA INDEX NAME)

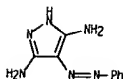
L4 ANSWER 48 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



IT 143571-44-2P 143571-45-3P 143571-46-4P
 143571-47-5P 143571-48-6P 143571-49-7P
 143571-50-0P 143571-51-1P 143571-52-2P
 143571-53-3P 143599-80-8P 143599-81-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and assocn. const. and molar extinction coeff. of)
 RN 143571-44-2 CAPLUS
 CN 2,5-Cyclohexadiene-1,4-dione, 2,3,5,6-tetrachloro-, compd. with 4-(phenylazo)-1H-pyrazole-3,5-diamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 3656-02-8
 CMF C9 H10 N6



CM 2

CRN 118-75-2
 CMF C6 C14 O2

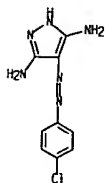


L4 ANSWER 48 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 143571-45-3 CAPLUS

CN 2,5-Cyclohexadiene-1,4-dione, 2,3,5,6-tetrachloro-, compd. with
4-[(4-chlorophenyl)azo]-1H-pyrazole-3,5-diamine (1:1) (9C1) (CA INDEX
NAME)

CM 1

CRN 3656-04-0
CMF C9 H9 Cl N6

CM 2

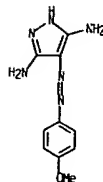
CRN 118-75-2
CMF C6 Cl4 O2

RN 143571-46-4 CAPLUS

CN 2,5-Cyclohexadiene-1,4-dione, 2,3,5,6-tetrafluoro-, compd. with
4-[(4-methoxyphenyl)azo]-1H-pyrazole-3,5-diamine (1:1) (9C1) (CA INDEX
NAME)

CM 1

L4 ANSWER 48 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

CRN 6975-75-3
CMF C10 H12 N6 O

CM 2

CRN 527-21-9
CMF C6 F4 O2

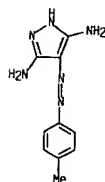
RN 143571-47-5 CAPLUS

CN 2,5-Cyclohexadiene-1,4-dione, 2,3,5,6-tetrafluoro-, compd. with
4-[(4-methylphenyl)azo]-1H-pyrazole-3,5-diamine (1:1) (9C1) (CA INDEX
NAME)

CM 1

CRN 3656-03-9
CMF C10 H12 N6

L4 ANSWER 48 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



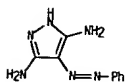
CM 2

CRN 527-21-9
CMF C6 F4 O2

RN 143571-48-6 CAPLUS

CN 2,5-Cyclohexadiene-1,4-dione, 2,3,5,6-tetrafluoro-, compd. with
4-(phenylazo)-1H-pyrazole-3,5-diamine (1:1) (9C1) (CA INDEX NAME)

CM 1

CRN 3656-02-8
CMF C9 H10 N6

CM 2

CRN 527-21-9
CMF C6 F4 O2

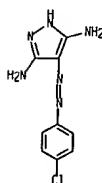
L4 ANSWER 48 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 143571-49-7 CAPLUS

CN 2,5-Cyclohexadiene-1,4-dione, 2,3,5,6-tetrafluoro-, compd. with
4-[(4-chlorophenyl)azo]-1H-pyrazole-3,5-diamine (1:1) (9C1) (CA INDEX
NAME)

CM 1

CRN 3656-04-0
CMF C9 H9 Cl N6

CM 2

CRN 527-21-9
CMF C6 F4 O2

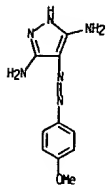
RN 143571-50-0 CAPLUS

CN 1,4-Cyclohexadiene-1,2,4,5-tetracarbonitrile, 3,6-dioxo-, compd. with

L4 ANSWER 48 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)
4-[(4-methoxyphenyl)azo]-1H-pyrazole-3,5-diamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 6975-75-3
CMF C10 H12 N6 O



CM 2

CRN 4032-03-5
CMF C10 H4 O2



RN 143571-51-1 CAPLUS
CN 1,4-Cyclohexadiene-1,2,4,5-tetracarbonitrile, 3,6-dioxo-, compd. with 4-[(4-methylphenyl)azo]-1H-pyrazole-3,5-diamine (1:1) (9CI) (CA INDEX NAME)

CM 1

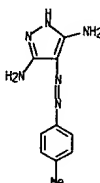
CRN 4032-03-5
CMF C10 H4 O2

L4 ANSWER 48 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



CM 2

CRN 3656-03-9
CMF C10 H12 N6



RN 143571-52-2 CAPLUS
CN 1,4-Cyclohexadiene-1,2,4,5-tetracarbonitrile, 3,6-dioxo-, compd. with 4-(phenylazo)-1H-pyrazole-3,5-diamine (1:1) (9CI) (CA INDEX NAME)

CM 1

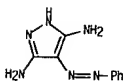
CRN 4032-03-5
CMF C10 H4 O2



L4 ANSWER 48 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

CM 2

CRN 3656-02-8
CMF C9 H10 N6



RN 143571-53-3 CAPLUS
CN 1,4-Cyclohexadiene-1,2,4,5-tetracarbonitrile, 3,6-dioxo-, compd. with 4-[(4-chlorophenyl)azo]-1H-pyrazole-3,5-diamine (1:1) (9CI) (CA INDEX NAME)

CM 1

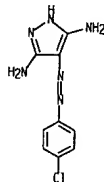
CRN 4032-03-5
CMF C10 H4 O2



CM 2

CRN 3656-04-0
CMF C9 H9 Cl N6

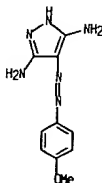
L4 ANSWER 48 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 143599-80-8 CAPLUS
CN 2,5-Cyclohexadiene-1,4-dione, 2,3,5,6-tetrachloro-, compd. with 4-[(4-methoxyphenyl)azo]-1H-pyrazole-3,5-diamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 6975-75-3
CMF C10 H12 N6 O



CM 2

CRN 118-75-2
CMF C6 C14 O2

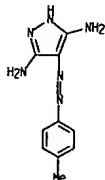
L4 ANSWER 48 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 143599-81-9 CAPLUS
 CN 2,5-Cyclohexadiene-1,4-dione, 2,3,5,6-tetrachloro-, compd. with
 4-[(4-methylphenyl)azo]-1H-pyrazole-3,5-diazine (1:1) (9C1) (CA INDEX
 NAME)

CM 1

CRN 3656-03-9
 CMF C10 H12 N6



CM 2

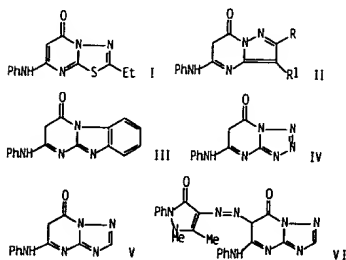
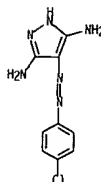
CRN 118-75-2
 CMF C6 C14 O2



L4 ANSWER 49 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1992:469808 CAPLUS
 DOCUMENT NUMBER: 117:69808
 TITLE: Ethyl .alpha.-phenylthiocarbonylglyoxate in the
 synthesis of heterocyclic compounds with bridgehead
 nitrogen and related compounds
 AUTHOR(S): Hammouda, M.; Etman, H. A.; Metwally, M. A.
 CORPORATE SOURCE: Fac. Sci., Univ. Mansoura, Mansoura, Egypt
 SOURCE: Journal of the Serbian Chemical Society (1992), 57(3),
 165-70
 CODEN: JSCSEN; ISSN: 0352-5139
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GRAPHIC IMAGE:

L4 ANSWER 49 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



ABSTRACT:

The interaction of the title compd. MeCOCH(CO₂Et)CSNHPh with
 2-amino-5-ethyl-1,3,4-thiadiazole, 5-amino-2-phenylpyrazole and/or
 4-(p-chlorophenylazo)-3,5-diazinopyrazole, 2-aminobenzimidazole,
 5-aminotetrazole and/or 3-amino-1,2,4-triazole resulted in the formation of the
 bridgehead nitrogen compds. I, II (R = Ph, R1 = H; R = NH₂, R1 = 4-ClC₆H₄N₂),
 III, IV and V. Compd. V underwent coupling with the diazonium salt of
 4-aminoantipyrine to give antipyrinylazobenzotriazopyrimidine VI. The
 structure of the previously unknown systems were confirmed by IR and NMR
 spectral data.

IT 3656-04-0, 4-(p-Chlorophenylazo)-3,5-diazinopyrazole

RL: RCT (Reactant); RACT (Reactant or reagent)
 (cyclocondensation of, with (phenylthiocarbonyl)acetate)

RN 3656-04-0 CAPLUS

CN 1H-Pyrazole-3,5-diazine, 4-[(4-chlorophenyl)azo]- (9C1) (CA INDEX NAME)

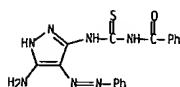
L4 ANSWER 50 OF 87 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1992:453079 CAPLUS
 DOCUMENT NUMBER: 117:53079
 TITLE: Corrosion inhibition of Delta 37 steel in acid pickling solution by heterocyclic thiourea derivatives
 AUTHOR(S): Ismail, A. R.; Hefny, M. M.; El-Kot, A.; El-Bastouy, M. S.
 CORPORATE SOURCE: Fac. Sci., Univ. Zagazig, Zagazig, Egypt
 SOURCE: Asian Journal of Chemistry (1992), 4(3), 469-80
 CODEN: AJCHEW; ISSN: 0970-7077
 DOCUMENT TYPE: Journal
 LANGUAGE: English

ABSTRACT: Galvanostatic cathodic behavior of Delta-37 Steel in 1N H2SO4 pickling bath solns. contg. different concns. of the heterocyclic thiourea deriv. 1-(3-amino-4-phenylazopyrazol-5-yl)-3-benzoyl-thiourea was studied. This compd. acts as a good corrosion inhibitor for this steel in H2SO4 bath and with an efficiency which reaches 94% at 50 degree.C. The inhibitory action of this compd. seems to be due to its adsorption on the metal surface, hence blocking the available area for hydrogen evolution reaction without any change in the mechanism. At low concn. less than 5 times, 10-5M, the additive acts as corrosion accelerator because its concn. is insufficient to block all the anodic sites. The heat of adsorption was 30.51 kJ/deg-mole. The adsorption of the additive mol. on the metal surface was through the S atom. The adsorption process follows the simplified Temkin isotherm. The surface coverage and the inhibition efficiency increase with the rise of temp.

IT 70649-15-9
 RL: USES (Uses)
 (corrosion inhibitor, for pickling of steel with sulfuric acid)

RN 70649-15-9 CAPLUS

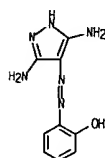
CN Benzamide, N-[[[5-amino-4-(phenylazo)-1H-pyrazol-3-yl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 51 OF 87 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1992:242709 CAPLUS
 DOCUMENT NUMBER: 116:242709
 TITLE: Complexation equilibria of lanthanum with 3,5-diamino-4-arylazopyrazole
 AUTHOR(S): Arifien, A. E.
 CORPORATE SOURCE: Fac. Sci., Assiut Univ., Assiut, Egypt
 SOURCE: Bulletin of the Faculty of Science, Assiut University (1991), 20(2), 167-72
 CODEN: BSAUDW; ISSN: 0366-4740
 DOCUMENT TYPE: Journal
 LANGUAGE: English

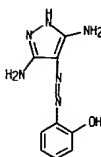
ABSTRACT: The interaction of La(III) with 3,5-diamino-4-(o-hydroxyphenyl-azo)-pyrazole (DAAZP) in methanol-water 50% (vol./vol.) medium was investigated. To explain the complexation equil. and to establish the stability const. spectrophotometrically, the methods based on the relationship $A = f(\text{pH})$ were applied. The formed complex was studied for reactions proceeding in equimol. concns. or in solns. contg. metal or ligand excess. The study gave evidence for the formation of complexes with a stoichiometric ratio 1:2 (M:L). The optimum conditions for the spectrophotometric detn. of La(III) with the title reagent were found.

IT 140651-20-3
 RL: PRP (Properties)
 (detr. by. of lanthanum)
 RN 140651-20-3 CAPLUS
 CN Phenol, 2-[(3,5-diamino-1H-pyrazol-4-yl)azo]- (9CI) (CA INDEX NAME)



IT 140651-20-3D. lanthanum complexes
 RL: PRP (Properties)
 (stability const. of)
 RN 140651-20-3 CAPLUS
 CN Phenol, 2-[(3,5-diamino-1H-pyrazol-4-yl)azo]- (9CI) (CA INDEX NAME)

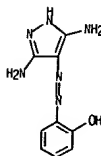
L4 ANSWER 51 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



L4 ANSWER 52 OF 87 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1992:242708 CAPLUS
 DOCUMENT NUMBER: 116:242708
 TITLE: Medium effect on 3,5-diamino-4-(o-hydroxyphenylazo)pyrazole and its complexes with cerium(III), lanthanum(III), zirconium(IV) and uranyl(II)
 AUTHOR(S): Arifien, A. E.; Aboul-Kasim, Enaf
 CORPORATE SOURCE: Fac. Sci., Assiut Univ., Assiut, Egypt
 SOURCE: Bulletin of the Faculty of Science, Assiut University (1991), 20(2), 85-92
 CODEN: BSAUDW; ISSN: 0366-4740
 DOCUMENT TYPE: Journal
 LANGUAGE: English

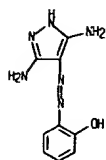
ABSTRACT: The absorption spectrum of 3,5-diamino-4-(o-hydroxyphenylazo)-pyrazole (DAAZP) was studied in 50% (vol./vol.) methanol-water solns. at different pH values. The variation of absorbance with pH indicated the existence of acid-base equil. The ionization const. of the reagent were detd. spectrophotometrically and potentiometrically. The chelates of the reagent with Ce(III), La(III), Zr(IV) and UO2(II) were also studied potentiometrically as well as conductometrically. The ligand forms 1:2 complexes with the considered metals.

IT 140651-20-3
 RL: PEP (Physical, engineering or chemical process); PROC (Process)
 (ionization of)
 RN 140651-20-3 CAPLUS
 CN Phenol, 2-[(3,5-diamino-1H-pyrazol-4-yl)azo]- (9CI) (CA INDEX NAME)



IT 140651-20-3D. metal complexes
 RL: PRP (Properties)
 (stability const. of)
 RN 140651-20-3 CAPLUS
 CN Phenol, 2-[(3,5-diamino-1H-pyrazol-4-yl)azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 52 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



L4 ANSWER 53 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1992:193572 CAPLUS

DOCUMENT NUMBER: 116:193572

TITLE: Solvent and pH effects on the electronic spectra of some 4-arylo-3,5-diaminopyrazoles

AUTHOR(S): El-Haty, M. T.; Azrallah, A. H.; Selim, M. A.

CORPORATE SOURCE: Chem. Dep., Fac. Sci., Aswan, Egypt

SOURCE: Bulletin de la Societe Chimique de France (1991), (Nov.-Dec.), 869-72

CODEN: BSCFAS; ISSN: 0037-8968

DOCUMENT TYPE: Journal

LANGUAGE: English

ABSTRACT:

The title compds. exist mainly in the azo-hydrazo tautomeric equil. The assignment of the spectral bands obtained and the possible solute-DMF mol. complexes are investigated. Acidity consts. of various acid-base equil. are also detd.

IT 3656-02-8 6975-75-3 140651-18-9

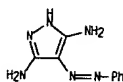
140651-19-0 140651-20-3 140651-21-4

RL: PRP (Properties)

(electronic spectrum of, solvent and pH effects on)

RN 3656-02-8 CAPLUS

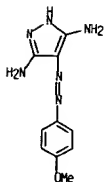
CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9C1) (CA INDEX NAME)



RN 6975-75-3 CAPLUS

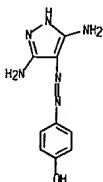
CN 1H-Pyrazole-3,5-diamine, 4-[(4-methoxyphenyl)azo]- (9C1) (CA INDEX NAME)

L4 ANSWER 53 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



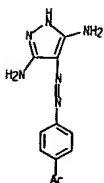
RN 140651-18-9 CAPLUS

CN Phenol, 4-[(3,5-diamino-1H-pyrazol-4-yl)azo]- (9C1) (CA INDEX NAME)



RN 140651-19-0 CAPLUS

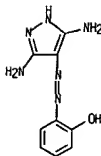
CN Ethanone, 1-[4-[(3,5-diamino-1H-pyrazol-4-yl)azo]phenyl]- (9C1) (CA INDEX NAME)



RN 140651-20-3 CAPLUS

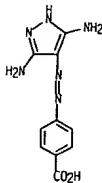
CN Phenol, 2-[(3,5-diamino-1H-pyrazol-4-yl)azo]- (9C1) (CA INDEX NAME)

L4 ANSWER 53 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 140651-21-4 CAPLUS

CN Benzoic acid, 4-[(3,5-diamino-1H-pyrazol-4-yl)azo]- (9C1) (CA INDEX NAME)



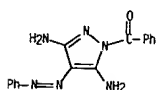
L4 ANSWER 54 OF 87 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1991:607960 CAPLUS
 DOCUMENT NUMBER: 115:207960
 TITLE: Nitriles in heterocyclic synthesis: synthesis of pyrazolo[1,5-a]pyrimidine, pyrazolo[1,5-c][1,2,4]triazine and pyrazolo[4,3-e][1,2,4]triazine derivatives
 AUTHOR(S): Elagacey, Abdel Ghani Ali; El-Taweel, Fathy Mohamed Abdel Aziz
 CORPORATE SOURCE: Chem. Dep., Fac. Sci., Bazieta, Egypt
 SOURCE: Journal fuer Praktische Chemie (Leipzig) (1991), 333(2), 333-8
 CODEN: JPCEAO; ISSN: 0021-8383
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GRAPHIC IMAGE:

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

ABSTRACT:

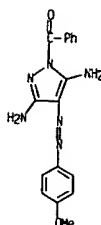
5-Amino-3-phenylpyrazole (I) reacted with enamionitriles II (R, R1 = CN, CO2Et) to afford the pyrazolopyrimidines III and the 5-substituted aminopyrazole IV. III (R = CN) reacted with arenediazonium chlorides and benzaldehyde to give pyrazolopyrimidinopyrazines V (Ar = Ph, p-ClC6H4). PhCONHNHCH(NH2)CHCN coupled with diazonium chloride of I and arenediazonium chlorides to give triazine VI and pyrroles VII (Ar = Ph, pMeOC6H4), resp. Cyclization of VII afforded the pyrazolotriazines VIII.

IT 136773-54-1P 136773-55-2P
 RL: RCT (Reactant); SPM (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and intramol. cyclocondensation of)
 RN 136773-54-1 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 1-benzoyl-4-(phenylazo)- (9CI) (CA INDEX NAME)

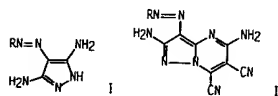


RN 136773-55-2 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 1-benzoyl-4-[(4-methoxyphenyl)azo]- (9CI) (CA

L4 ANSWER 54 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)
 INDEX NAME)

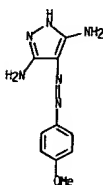


L4 ANSWER 55 OF 87 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1991:471525 CAPLUS
 DOCUMENT NUMBER: 115:71525
 TITLE: Reaction of tetracyanoethylene with arylazoaminopyrazoles via charge-transfer complexation
 AUTHOR(S): Hassan, Alaa A.; Ibrahim, Yusria R.; Mohamed, Nasr K.; Mourad, Aboul-Fetouh E.
 CORPORATE SOURCE: Fac. Sci., El-Minia Univ., El-Minia, Egypt
 SOURCE: Journal fuer Praktische Chemie (Leipzig) (1990), 332(6), 1049-53
 CODEN: JPCEAO; ISSN: 0021-8383
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GRAPHIC IMAGE:

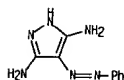


ABSTRACT: Arylazoaminopyrazoles I (R = Ph, 4-MeC6H4, 4-ClC6H4, 4-O2NC6H4) react with tetracyanoethylene to yield pyrazolopyrimidines II via charge-transfer complex formation. The effect of the substituents on the basicity of the pyrazole nucleus as well as the complexation center in different types of pyrazoles is discussed.

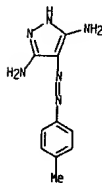
IT 6975-75-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (complexation of, with tetracyanoethylene)
 RN 6975-75-3 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-methoxyphenyl)azo]- (9CI) (CA INDEX NAME)



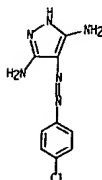
L4 ANSWER 55 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)
 IT 3656-02-8 3656-03-9 3656-04-0
 62679-04-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (cyclocondensation of, with tetracyanoethylene via charge transfer complexation)
 RN 3656-02-8 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)



RN 3656-03-9 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-methylphenyl)azo]- (9CI) (CA INDEX NAME)

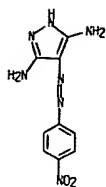


RN 3656-04-0 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]- (9CI) (CA INDEX NAME)



RN 62679-04-3 CAPLUS

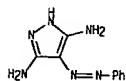
L4 ANSWER 55 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-nitrophenyl)azo]- (9CI) (CA INDEX NAME)



IT 135085-21-1P 135085-22-2P 135085-23-3P
 135085-24-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 135085-21-1 CAPLUS
 CN Ethenetetracarbonitrile, compd. with 4-(phenylazo)-1H-pyrazole-3,5-diamine
 (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 3656-02-8
 CMF C9 H10 N6



CM 2

CRN 670-54-2
 CMF C6 N4

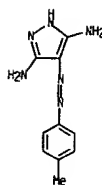


L4 ANSWER 55 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 135085-22-2 CAPLUS
 CN Ethenetetracarbonitrile, compd. with 4-[(4-methylphenyl)azo]-1H-pyrazole-3,5-diamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 3656-03-9
 CMF C10 H12 N6



CM 2

CRN 670-54-2
 CMF C6 N4



RN 135085-23-3 CAPLUS
 CN Ethenetetracarbonitrile, compd. with 4-[(4-methoxyphenyl)azo]-1H-pyrazole-3,5-diamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 6975-75-3
 CMF C10 H12 N6 O

L4 ANSWER 55 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 135085-24-4 CAPLUS
 CN Ethenetetracarbonitrile, compd. with 4-[(4-chlorophenyl)azo]-1H-pyrazole-3,5-diamine (1:1) (9CI) (CA INDEX NAME)



CM 2

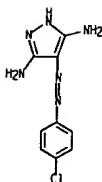
CRN 670-54-2
 CMF C6 N4



RN 135085-24-4 CAPLUS
 CN Ethenetetracarbonitrile, compd. with 4-[(4-chlorophenyl)azo]-1H-pyrazole-3,5-diamine (1:1) (9CI) (CA INDEX NAME)

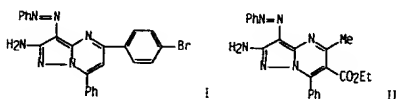
CM 1

CRN 3656-04-0
 CMF C9 H9 Cl N6



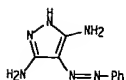
CM 2

L4 ANSWER 56 OF 87 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1991:247232 CAPLUS
 DOCUMENT NUMBER: 114:247232
 TITLE: Reactions with 3,5-diaminopyrazoles: new routes to pyrazolo[1,5-a]pyrimidines
 AUTHOR(S): Elgemei, Galal E. H.; Fathy, Nahed M.; Faddah, Laila M.; Ebeid, Mohamed Y.; Elsaid, Mohamed K.
 CORPORATE SOURCE: Chem. Dep., Fac. Sci., Bani Suef, Egypt
 SOURCE: Archiv der Pharmazie (Weinheim, Germany) (1991), 324(3), 149-52
 CODEN: ARPMA5; ISSN: 0365-6233
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 114:247232
 GRAPHIC IMAGE:

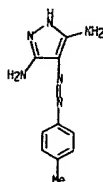


ABSTRACT:
 Reactions of 4-(aryloxy)-3,5-diaminopyrazoles with chalcones and Et .alpha.-acetylcinnamates lead to new polyfunctional derivs. of pyrazolo[1,5-a]pyrimidine, e.g. I and II, resp.

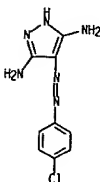
IT 3656-02-8 3656-03-9 3656-04-0
 6975-75-3
 RL: RCT (Reactant): RACT (Reactant or reagent)
 (cyclization of, with chalcones and acetylcinnamates, pyrazolopyrimidines from)
 RN 3656-02-8 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)



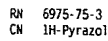
L4 ANSWER 56 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)
 RN 3656-03-9 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-methylphenyl)azo]- (9CI) (CA INDEX NAME)



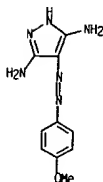
RN 3656-04-0 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]- (9CI) (CA INDEX NAME)



RN 6975-75-3 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-methoxyphenyl)azo]- (9CI) (CA INDEX NAME)

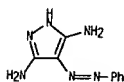


L4 ANSWER 56 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

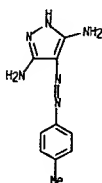


L4 ANSWER 57 OF 87 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1991:122246 CAPLUS
 DOCUMENT NUMBER: 114:122246
 TITLE: A novel synthesis of indanopyrazolopyrimidines by charge-transfer complexation
 AUTHOR(S): Hassan, Alaa A.; Ibrahim, Yusria R.; Mohamed, Nasr K.; Mourad, Aboul Fetouh E.
 CORPORATE SOURCE: Fac. Sci., El-Minia Univ., El-Minia, Egypt
 SOURCE: Liebigs Annalen der Chemie (1991), (1), 71-2
 CODEN: LACHDL; ISSN: 0170-2041
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 ABSTRACT: Intermol. charge-transfer complexes of arylazoaminopyrazoles as donors with 2-(dicyanomethylene)indane-1,3-dione (I) and 9-(dicyanomethylene)-2,4,7-trinitrofluorene as .pi.-acceptors have been investigated spectroscopically. Arylazoaminopyrazoles react with I via charge-transfer complexes to yield indanopyrazolo[1,5-a]pyrimidines.

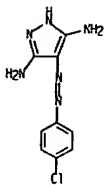
IT 3656-02-8 3656-03-9 3656-04-0
 6975-75-3 62679-04-3
 RL: RCT (Reactant): RACT (Reactant or reagent)
 (cyclocondensation of, with dicyanomethyleneindanedione via charge transfer complexes)
 RN 3656-02-8 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)



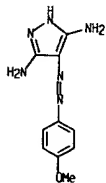
RN 3656-03-9 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-methylphenyl)azo]- (9CI) (CA INDEX NAME)



L4 ANSWER 57 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)
 RN 3656-04-0 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]- (9CI) (CA INDEX NAME)

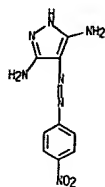


RN 6975-75-3 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-methoxyphenyl)azo]- (9CI) (CA INDEX NAME)



RN 62679-04-3 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-nitrophenyl)azo]- (9CI) (CA INDEX NAME)

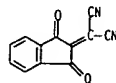
L4 ANSWER 57 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



IT 130670-69-8P 130670-70-1P 130670-71-2P
 130670-72-3P 130670-73-4P 130670-74-5P
 130670-75-6P 130670-76-7P
 RL: PRP (Properties): SPN (Synthetic preparation): PREP (Preparation)
 (prepn. and properties of)
 RN 130670-69-8 CAPLUS
 CN Propanedinitrile, (1,3-dihydro-1,3-dioxo-2H-inden-2-ylidene)-, compd. with
 4-[(4-methoxyphenyl)azo]-1H-pyrazole-3,5-diamine (1:1) (9CI) (CA INDEX
 NAME)

CM 1

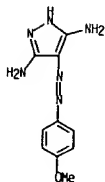
CRN 16954-74-8
 CMF C12 H4 N2 O2



CM 2

CRN 6975-75-3
 CMF C10 H12 N6 O

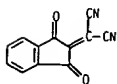
L4 ANSWER 57 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 130670-70-1 CAPLUS
 CN Propanedinitrile, (1,3-dihydro-1,3-dioxo-2H-inden-2-ylidene)-, compd. with
 4-[(4-methylphenyl)azo]-1H-pyrazole-3,5-diamine (1:1) (9CI) (CA INDEX
 NAME)

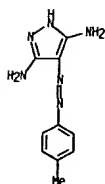
CM 1

CRN 16954-74-8
 CMF C12 H4 N2 O2



CM 2

CRN 3656-03-9
 CMF C10 H12 N6

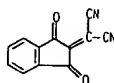


L4 ANSWER 57 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 130670-71-2 CAPLUS
 CN Propanedinitrile, (1,3-dihydro-1,3-dioxo-2H-inden-2-ylidene)-, compd. with
 4-[(4-chlorophenyl)azo]-1H-pyrazole-3,5-diamine (1:1) (9CI) (CA INDEX NAME)

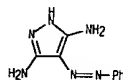
CM 1

CRN 16954-74-8
 CMF C12 H4 N2 O2



CM 2

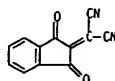
CRN 3656-02-8
 CMF C9 H10 N6



RN 130670-72-3 CAPLUS
 CN Propanedinitrile, (1,3-dihydro-1,3-dioxo-2H-inden-2-ylidene)-, compd. with
 4-[(4-chlorophenyl)azo]-1H-pyrazole-3,5-diamine (1:1) (9CI) (CA INDEX
 NAME)

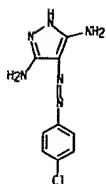
CM 1

CRN 16954-74-8
 CMF C12 H4 N2 O2



L4 ANSWER 57 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)
CM 2

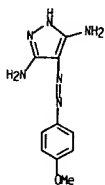
CRN 3656-04-0
CMF C9 H9 C1 N6



RN 130670-73-4 CAPLUS
CM Propanedinitrile, (2,4,7-trinitro-9H-fluoren-9-ylidene)-, compd. with 4-[(4-methoxyphenyl)azo]-1H-pyrazole-3,5-diamine (1:1) (9C1) (CA INDEX NAME)

CM 1

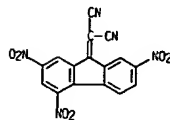
CRN 6975-75-3
CMF C10 H12 N6 O



CM 2

CRN 1172-02-7

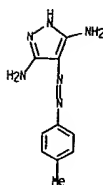
L4 ANSWER 57 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)
CMF C16 H5 N5 O6



RN 130670-74-5 CAPLUS
CM Propanedinitrile, (2,4,7-trinitro-9H-fluoren-9-ylidene)-, compd. with 4-[(4-methylphenyl)azo]-1H-pyrazole-3,5-diamine (1:1) (9C1) (CA INDEX NAME)

CM 1

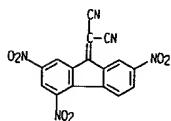
CRN 3656-03-9
CMF C10 H12 N6



CM 2

CRN 1172-02-7
CMF C16 H5 N5 O6

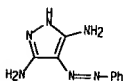
L4 ANSWER 57 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 130670-75-6 CAPLUS
CM Propanedinitrile, (2,4,7-trinitro-9H-fluoren-9-ylidene)-, compd. with 4-(phenylazo)-1H-pyrazole-3,5-diamine (1:1) (9C1) (CA INDEX NAME)

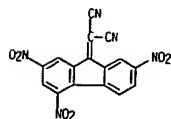
CM 1

CRN 3656-02-8
CMF C9 H10 N6



CM 2

CRN 1172-02-7
CMF C16 H5 N5 O6

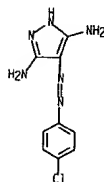


RN 130670-76-7 CAPLUS
CM Propanedinitrile, (2,4,7-trinitro-9H-fluoren-9-ylidene)-, compd. with 4-[(4-chlorophenyl)azo]-1H-pyrazole-3,5-diamine (1:1) (9C1) (CA INDEX NAME)

CM 1

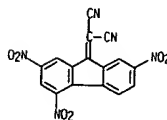
CRN 3656-04-0

L4 ANSWER 57 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)
CMF C9 H9 C1 N6



CM 2

CRN 1172-02-7
CMF C16 H5 N5 O6



L4 ANSWER 58 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1990:591279 CAPLUS

DOCUMENT NUMBER: 113:191279

TITLE: Synthesis of substituted azaindenes: synthesis of new pyrazolo[1.5-a]pyrimidine derivatives
 AUTHOR(S): Elmagdi, Mohamed Hilmy; Erian, Aysan Wahba
 CORPORATE SOURCE: Fac. Sci., Cairo Univ., Giza, Egypt
 SOURCE: Bulletin of the Chemical Society of Japan (1990), 63(6), 1854-6

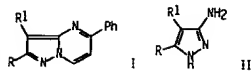
CODEN: BCSJAB; ISSN: 0009-2673

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 113:191279

GRAPHIC IMAGE:



ABSTRACT:

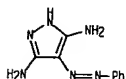
Several new pyrazolo[1.5-a]pyrimidines, e.g., I (R = Ph, R1 = H; R = Me, R1 = Ph; R = NH2, R1 = Me, Ph; N-H), were synthesized via the reaction of 4,5-disubstituted 3-aminopyrazoles II with PhCOCH2CH2NMe2.HCl, PhCH:CHCHO, PhCOCH:CHPh, and C2(CN)4.

IT 3656-02-8

RL: RCT (Reactant); RACT (Reactant or reagent)
 (cyclocondensation of, with (dimethylamino)propionophenone)

RN 3656-02-8 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)



L4 ANSWER 59 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1990:478120 CAPLUS

DOCUMENT NUMBER: 113:78120

TITLE: Synthesis of heterocycles through the reactions of nitrilimines with amino and oxo diazoles
 AUTHOR(S): Elfahham, H. A.; Abdel-Latif, F. F.; Mohamed, S. K.
 CORPORATE SOURCE: Fac. Sci., El-Minia Univ., El-Minia, Egypt
 SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1990), 29B(4), 381-6

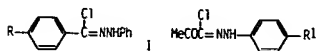
CODEN: IJSBDB; ISSN: 0376-4699

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 113:78120

GRAPHIC IMAGE:



ABSTRACT:

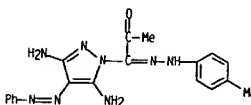
Fused azoles such as pyrazolo[5.1-c][1.2.4]triazoles, pyrazolo[3.4-b]pyrazine and pyrazolo[1.5-a]imidazole have been prepd. from the reactions of nitrilimines, produced from hydrazidoyl halides I (R = Cl, Me, MeO), or II (R = NO2, Me), with amino- and oxo-azoles. In some cases acyclic products are formed.

IT 128671-14-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 128671-14-7 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 1-[1-[(4-methylphenyl)hydrazono]-2-oxopropyl]-4-(phenylazo)- (9CI) (CA INDEX NAME)



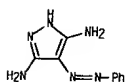
L4 ANSWER 59 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

IT 3656-02-8

RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with N-phenylarylhydrazidoyl chloride)

RN 3656-02-8 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)



L4 ANSWER 60 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1990:448561 CAPLUS

DOCUMENT NUMBER: 113:48561

TITLE: Structural investigation of pyrazole derivatives as corrosion inhibitors for delta steel in acid chloride solutions

AUTHOR(S): Allah, A. G. Gad; Tamous, H. M.

CORPORATE SOURCE: Fac. Sci., Cairo Univ., Giza, Egypt

SOURCE: Journal of Applied Electrochemistry (1990), 20(3), 488-93

CODEN: JAELEBJ; ISSN: 0021-891X

DOCUMENT TYPE: Journal

LANGUAGE: English

ABSTRACT:

The effect of type and position of the substituted group of pyrazole derivs. for corrosion inhibition of delta steel in acid chloride solns. has been investigated. An increase of inhibitor concn. decreased both the corrosion rate and the corrosion current, and shifted the corrosion potential, to more pos. values, i.e. the predominant action was as an anodic inhibitor. The results showed that the adsorption isotherm is S-shaped. The inhibition efficiency of the different substituted pyrazole derivs. follows the order: Me < methoxyl < chloro. On the other hand, the position of the substituent group with respect to the azo group of the pyrazole derivs. affected the inhibition efficiency as follows: ortho < para < meta. Also, the effect of temp. on the corrosion inhibition was found to follow an Arrhenius relation.

IT 3656-02-8 3656-03-9 3656-04-0

6975-75-3 57770-59-9 57770-60-2

128044-29-1 128044-30-4 128044-31-5

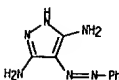
128044-32-6

RL: PRP (Properties)

(corrosion inhibitor, for steel, in acidic chloride soln.)

RN 3656-02-8 CAPLUS

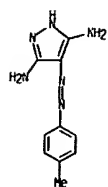
CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)



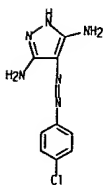
RN 3656-03-9 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-[(4-methylphenyl)azo]- (9CI) (CA INDEX NAME)

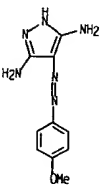
L4 ANSWER 60 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



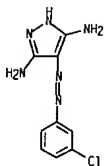
RN 3656-04-0 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]- (9C1) (CA INDEX NAME)



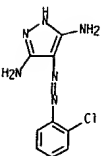
RN 6975-75-3 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-methoxyphenyl)azo]- (9C1) (CA INDEX NAME)



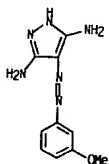
L4 ANSWER 60 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 128044-30-4 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(2-chlorophenyl)azo]- (9C1) (CA INDEX NAME)



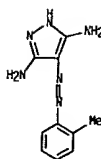
RN 128044-31-5 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(3-methoxyphenyl)azo]- (9C1) (CA INDEX NAME)



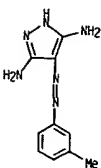
RN 128044-32-6 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(2-methoxyphenyl)azo]- (9C1) (CA INDEX NAME)

L4 ANSWER 60 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 57770-59-9 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(2-methylphenyl)azo]- (9C1) (CA INDEX NAME)

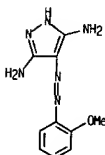


RN 57770-60-2 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(3-methylphenyl)azo]- (9C1) (CA INDEX NAME)

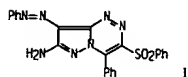


RN 128044-29-1 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(3-chlorophenyl)azo]- (9C1) (CA INDEX NAME)

L4 ANSWER 60 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



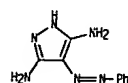
L4 ANSWER 61 OF 87 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1990:198320 CAPLUS
 DOCUMENT NUMBER: 112:198320
 TITLE: Reaction with heterocyclic diazonium salts: synthesis of pyrazolylhydrazones and pyrazolo[1,5-c]-as-triazine derivatives
 AUTHOR(S): Ibrahim, Mohamed Kasal Ahmed
 CORPORATE SOURCE: Fac. Sci., Cairo Univ., Giza, Egypt
 SOURCE: Pakistan Journal of Scientific and Industrial Research (1989), 32(5), 301-5
 CODEN: PSIRAA; ISSN: 0030-9885
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GRAPHIC IMAGE:



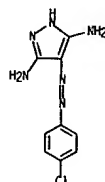
ABSTRACT:
 3-Amino-4-(arylo)pyrazol-5-ylidiazonium chlorides were coupled with active methylene reagents such as benzenesulfonyl-, p-toluenesulfonylacetophenone, benzenesulfonylacetone, dibenzoylmethane, and acetacetanilide in NaOAc/EtOH soln. to give the corresponding pyrazolo[1,5-c]-as-triazine derivs., e.g., 1. Formation of pyrazolo[1,5-c]-as-triazines is assumed to be a dipolar cycloaddn. reaction of diazobetaine and the enol form of the active methylene compd. On the other hand, the diazonium chlorides were coupled with cyanoacetanilide, cyanoacetamide, .beta.-naphthol, 3-methylpyrazol-5-one, 3-methyl-1-phenylpyrazol-5-one and (4-hydroxythiazol-2-yl)acetonitrile to give the corresponding hydrazones. The formation of hydrazones is assumed to occur by the normal coupling of diazonium chlorides and active hydrogen reagents. Some of the acyclic hydrazones could be cyclized by refluxing AcOH to give pyrazolo[1,5-c]-as-triazine derivs.

IT 3656-02-8 3656-04-0
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (diazotization and cyclocondensation of, with active methylene compds.)
 RN 3656-02-8 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)

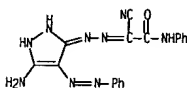
L4 ANSWER 61 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 3656-04-0 CAPLUS
 CN 1H-Pyrazole-3,5-diazine, 4-[(4-chlorophenyl)azo]- (9CI) (CA INDEX NAME)

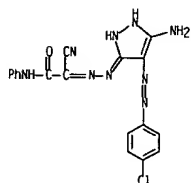


IT 126743-14-4P 126743-15-5P 126743-16-6P
 126743-17-7P 126743-20-2P 126743-21-3P
 126779-36-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and cyclization of)
 RN 126743-14-4 CAPLUS
 CN Acetamide, 2-[[5-amino-4-(phenylazo)-1H-pyrazol-3-yl]hydrazono]-2-cyano-N-phenyl- (9CI) (CA INDEX NAME)

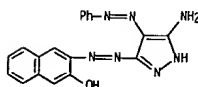


RN 126743-15-5 CAPLUS
 CN Acetamide, 2-[[5-amino-4-[(4-chlorophenyl)azo]-1H-pyrazol-3-yl]hydrazono]-2-cyano-N-phenyl- (9CI) (CA INDEX NAME)

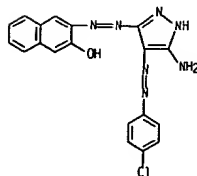
L4 ANSWER 61 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 126743-16-6 CAPLUS
 CN 2-Naphthalenol, 3-[[5-amino-4-(phenylazo)-1H-pyrazol-3-yl]azo]- (9CI) (CA INDEX NAME)

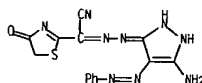


RN 126743-17-7 CAPLUS
 CN 2-Naphthalenol, 3-[[5-amino-4-[(4-chlorophenyl)azo]-1H-pyrazol-3-yl]azo]- (9CI) (CA INDEX NAME)

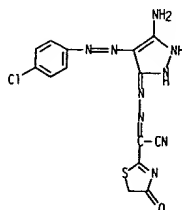


RN 126743-20-2 CAPLUS
 CN 2-Thiazoleacetone, .alpha.-[[5-amino-4-(phenylazo)-1H-pyrazol-3-yl]hydrazono]-4,5-dihydro-4-oxo- (9CI) (CA INDEX NAME)

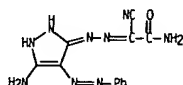
L4 ANSWER 61 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 126743-21-3 CAPLUS
 CN 2-Thiazoleacetone, .alpha.-[[5-amino-4-[(4-chlorophenyl)azo]-1H-pyrazol-3-yl]hydrazono]-4,5-dihydro-4-oxo- (9CI) (CA INDEX NAME)

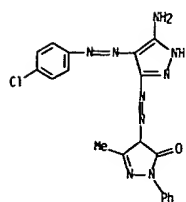


RN 126779-36-0 CAPLUS
 CN Acetamide, 2-[[5-amino-4-(phenylazo)-1H-pyrazol-3-yl]hydrazono]-2-cyano-N-phenyl- (9CI) (CA INDEX NAME)

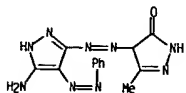


IT 126742-96-9P 126743-18-8P 126743-19-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 126742-96-9 CAPLUS
 CN 3H-Pyrazol-3-one, 4-[[5-amino-4-[(4-chlorophenyl)azo]-1H-pyrazol-3-yl]azo]-2,4-dihydro-5-methyl-2-phenyl- (9CI) (CA INDEX NAME)

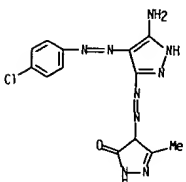
L4 ANSWER 61 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 126743-18-8 CAPLUS
 CN 3H-Pyrazol-3-one, 4-[[[5-amino-4-(phenylazo)-1H-pyrazol-3-yl]azo]-2,4-dihydro-5-methyl- (9CI) (CA INDEX NAME)



RN 126743-19-9 CAPLUS
 CN 3H-Pyrazol-3-one, 4-[[[5-amino-4-(4-chlorophenyl)azo]-1H-pyrazol-3-yl]azo]-2,4-dihydro-5-methyl- (9CI) (CA INDEX NAME)

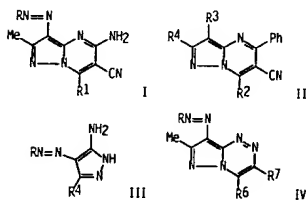
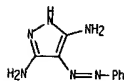


L4 ANSWER 61 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

L4 ANSWER 62 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1990:118773 CAPLUS
 DOCUMENT NUMBER: 112:118773
 TITLE: Studies on condensed pyrazoles: synthesis of new methyl- and aminopyrazolo[1,5-a]pyrimidines and of pyrazolo[5,1-c][1,2,4]triazines
 AUTHOR(S): Elmagdi, Mohamed Hilmy; Taha, Nadia Hassen; Abd El All, Fatma Abdel Maksoud; Abdel-Motaleb, Ramadan Maawad; Mahmoud, Fivian Farouk
 CORPORATE SOURCE: Fac. Sci., Cairo Univ., Giza, Egypt
 SOURCE: Collection of Czechoslovak Chemical Communications (1989), 54(4), 1082-91
 CODEN: CCCCAK; ISSN: 0010-0765
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 112:118773
 GRAPHIC IMAGE:

L4 ANSWER 62 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



ABSTRACT:

A variety of 3-(aryloxy)pyrazolo[1,5-a]pyrimidines I (R = Ph, 4-tolyl), R1 = Ph, C6H4OMe-4) and II (R2 = NH2, R4 = H; H2N; R2 = OH, R4 = H2N; R3 = N:NPh) were obtained by the reaction of III (R = Ph, 4-tolyl, R4 = Me) with RICH:C(CN)2 and III (R = Ph, R4 = OH, NH2) with PhCH:CRSCN (R5 = cyano, CO2Et), resp. The structures of I and II were confirmed by NMR. Reaction of II with H+ in AcOH-H2SO4 gave the corresponding 3-unsubstituted aminopyrazolo[1,5-a]pyrimidines II (R2 = NH2, OH, R4 = AcNH, R3 = H). Diazotized III (R4 = Me) coupled with HCCl2CO2Et, CH2(CN)2, or MeCOCH2CO2Et to yield pyrazolo[5,1-c][1,2,4]triazines IV (R = Ph, 4-tolyl; R6 = NH2, R7 = cyano, CO2Et; R = Ph, R6 = Me, R7 = CO2Et).

IT 3656-02-8, 3,5-Diamino-4-phenylazopyrazole
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (cyclocondensation reaction of, with cinnamitriles)

RN 3656-02-8 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)

L4 ANSWER 63 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1989:457698 CAPLUS

DOCUMENT NUMBER: 111:57698

TITLE: Reaction of hydrazidoyl chlorides with heterocyclic

amines and mercaptans

AUTHOR(S): Ibrahim, M. K. A.; El-Gharib, M. S.; Farag, A. M.;

Elghandour, A. H. H.

CORPORATE SOURCE: Fac. Sci., Cairo Univ., Giza, Egypt

SOURCE: Indian Journal of Chemistry, Section B: Organic

Chemistry Including Medicinal Chemistry (1988),

278(9), 836-9

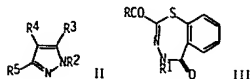
CODEN: IJSCDH; ISSN: 0376-4699

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 111:57698

GRAPHIC IMAGE:



ABSTRACT:

The hydrazidoyl chloride $\text{RCOC}(\text{Cl})\text{:NNHRI}$ (I: R = morpholino, R1 = Ph) reacted with pyrazole II (R2 = R5 = Ph, R3 = NH2, R4 = H) in EtOH/Et3N to give II (R2, R4, R5 same, R3 = $\text{NHC}(\text{:NNHPh})\text{COR}$). I (R = Me, R1 = Ph) reacted with II (R2 = H, R3 = R5 = NH2, R4 = N-NC6H4R6-4; R6 = H, Cl) to give II (R2 = C(:NNHPh)COR, R3-R5 same). Reaction of I (R = OEt, R1 = 4-MeC6H4; R = NHPh, R1 = Ph) with o-HSC6H4CO2H in basic medium gave benzothiadiazepinones III. Other reactions of I with thioglycolic acid, o-H2NC6H4SH, etc. are also reported.

IT 93585-26-3P 121580-43-6P

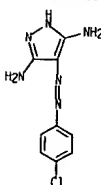
RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of)

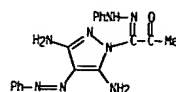
RN 93585-26-3 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 1-[(2-oxo-1-(phenylhydrazono)propyl]-4-(phenylazo)- (9CI) (CA INDEX NAME)

L4 ANSWER 63 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

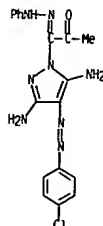


L4 ANSWER 63 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 121580-43-6 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]-1-[2-oxo-1-(phenylhydrazono)propyl]- (9CI) (CA INDEX NAME)



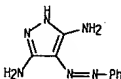
IT 3656-02-8 3656-04-0

RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction with hydrazidoyl chloride)

RN 3656-02-8 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)



RN 3656-04-0 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 64 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1989:57610 CAPLUS

DOCUMENT NUMBER: 110:57610

TITLE: Activated nitriles in heterocyclic synthesis: a novel synthesis of fused pyrimidine, pyrazole and thiazole derivatives

AUTHOR(S): Ibrahim, Mohamed Kamal Ahmed

CORPORATE SOURCE: Fac. Sci., Cairo Univ., Giza, Egypt

SOURCE: Indian Journal of Chemistry, Section B: Organic

Chemistry Including Medicinal Chemistry (1988),

278(5), 478-81

CODEN: IJSCDH; ISSN: 0376-4699

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 110:57610

GRAPHIC IMAGE:

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

ABSTRACT:

Treating p-MeOC6H4CH:C(CN)2 (I) with pyrazolone II (R = H, R1 = NH2) gave pyrazolo[1,5-a]pyrimidine III, whereas the treating I with II (R = Cl, R1 = OH) gave pyrazolo[1,5-b][1,3]oxazine IV. Pyrimido[1,2-a]benzimidazole V was prepd. by treating I with 2-aminobenzimidazole. Treating I with 3-aminotriazole gave s-triazolo[3,4-b]pyrimidine VI. 7H-Thiazolo[3,2-a]pyridine VII was prepd. by treating I with thiazolinone VIII.

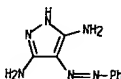
IT 3656-02-8

RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, with anisylidenemalonitrile)

RN 3656-02-8 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)



L4 ANSWER 65 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1988:590351 CAPLUS

DOCUMENT NUMBER: 109:190351

TITLE: Synthesis of pyrazolo[5.1-c][1.2.4]triazines, isoxazolo[3.4-e]pyrazolo[5.1-c][1.2.4]triazines, and aminopyridones

AUTHOR(S): Sadek, Kamil U.; Ibrahim, Nadia S.; Elnagdi, Mohamed H.

CORPORATE SOURCE: Fac. Sci., Minia Univ., Minia, Egypt

SOURCE: Archiv der Pharmazie (Weinheim, Germany) (1988), 32(3), 141-3

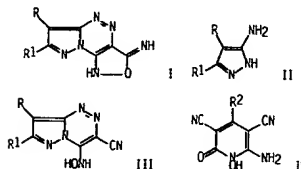
CODEN: ARPMAS; ISSN: 0365-6233

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 109:190351

GRAPHIC IMAGE:



ABSTRACT:

The isoxazolo[3.4-e]pyrazolo[5.1-c][1.2.4]triazines I (R = Ph; R₂ = Me, OH) were prepd. by treating diazotized aminopyrroles II with NCH₂CONHOK. II (R = H, R₁ = Ph; R = Ph; R₂ = NH₂) and NCH₂CONHOK gave pyrazolo[5.1-c][1.2.4]triazines III, which were cyclized to give I. R₂CH:C(CN)₂ (R = aryl) and NCH₂CONHOK gave aminopyridinones IV.

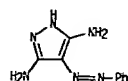
IT 3656-02-8

RL: RCT (Reactant): RACT (Reactant or reagent)
(diazotization and cyclization with potassium cyanoacetohydroxamate)

RN 3656-02-8 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)

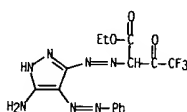
L4 ANSWER 65 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



L4 ANSWER 66 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 116642-35-4 CAPLUS

CN Butanoic acid, 2-[[5-amino-4-(phenylazo)-1H-pyrazol-3-yl]azo]-4,4,4-trifluoro-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)

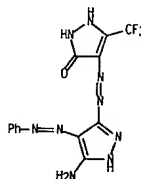


IT 116616-58-1P 116616-59-2P

RL: SPN (Synthetic preparation): PREP (Preparation)
(prepn. of)

RN 116616-58-1 CAPLUS

CN 3H-Pyrazol-3-one, 4-[[[5-amino-4-(phenylazo)-1H-pyrazol-3-yl]azo]-1,2-dihydro-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)



RN 116616-59-2 CAPLUS

CN 3H-Pyrazol-3-one, 4-[[[5-amino-4-(phenylazo)-1H-pyrazol-3-yl]azo]-1,2-dihydro-2-phenyl-3-(trifluoromethyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 66 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1988:549477 CAPLUS

DOCUMENT NUMBER: 109:149477

TITLE: Reaction with heterocyclic diazonium salts: synthesis of some azoly hydrazones and fused azole derivatives

AUTHOR(S): Ibrahim, Mohamed Kamal Ahmed

CORPORATE SOURCE: Fac. Sci., Cairo Univ., Giza, Egypt

SOURCE: Pakistan Journal of Scientific and Industrial Research (1987), 30(11), 799-802

CODEN: PSIRAA; ISSN: 0030-9885

DOCUMENT TYPE: Journal

LANGUAGE: English

GRAPHIC IMAGE:

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

ABSTRACT:

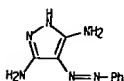
4-Bromo-3-phenylpyrazol-5-yl diazonium chloride was coupled with active methylene reagents, such as 3-methylpyrazol-5-one, cyanoacetanilide, acetoacetanilide, rhodanine, thiazolin-4-one deriv. I and a 2-oxazolin-5-one deriv. in ethanol soln. to give the hydrazone coupling products. Also aminoantipyrine was diazotized to the diazonium chloride and then coupled with I to give the hydrazone deriv. II. Similarly 3-amino-4-phenylazopyrazol-5-yl diazonium chloride was coupled with Et 1,1,1-trifluoroacetate to give the hydrazone III. Some of the acyclic hydrazones could be cyclized via reflux in acetic acid to give pyrazolo[1.5-c]-as-triazine derivs. Also III was treated with RNHNR₂ (R = H, Ph) to give pyrazolopyrazoles IV. The pyrazol-5-ylazooxazolin-5-one deriv. V was converted into pyrazolo[1.5-c]-as-triazine VI via treatment with ammonia soln.

IT 3656-02-8, 3,5-Diamino-4-phenylazopyrazole

RL: RCT (Reactant): RACT (Reactant or reagent)
(diazotization and coupling reaction with active methylene compds., hydrazones from)

RN 3656-02-8 CAPLUS

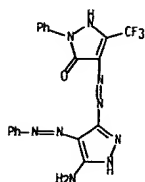
CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)



IT 116642-35-4P

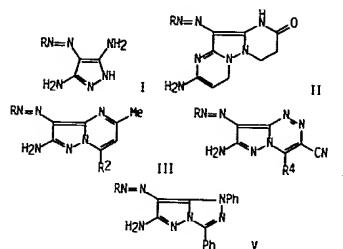
RL: SPN (Synthetic preparation): PREP (Preparation)
(prepn. and cyclocondensation reaction with hydrazines, pyrazolopyrazoles from)

L4 ANSWER 66 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



L4 ANSWER 67 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1988:510383 CAPLUS
 DOCUMENT NUMBER: 109:110383
 TITLE: Studies on 3,5-diaminopyrazoles: new routes for the synthesis of new pyrazoloazines and pyrazoloazoles
 AUTHOR(S): Elfahham, Hassan Attia; Elgeesie, Galal Eldin Hamza; Ibraheim, Yusra Rizk; Elnagdi, Mohamed Hilmy
 CORPORATE SOURCE: Fac. Sci., Minia Univ., Minia, Egypt
 SOURCE: Liebigs Annalen der Chemie (1988), (8), 819-22
 CODEN: LACHDL; ISSN: 0170-2041
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 109:110383
 GRAPHIC IMAGE:

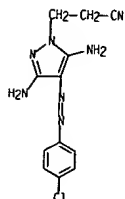


ABSTRACT:

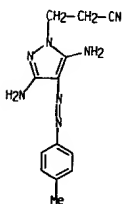
Cyclocondensation of 3,5-diaminopyrazoles I (R = 4-ClC₆H₄, 4-MeC₆H₄, 4-MeOC₆H₄) with excess CH₂:CHCN gave 50-60% pyrimidinones II. In contrast, cyclocondensation of I with MeCOCH₂COR₁ (R₁ = Me, OEt) gave 67-89% pyrazolopyrimidines III (R₂ = Me, OH). Diazotization of I with NaNO₂-HCl followed by reaction with active methylene compds., e.g. R₃CH₂CN (R₃ = PhCO, cyano) gave 65-90% pyrazolotriazines IV (R₄ = Ph, NH₂). Pyrazolotriazoles V were prepd. in 55-65% yield by treating I with nitrile imine PhCCl:NNHPh.

IT 114299-65-9P 114299-66-0P 114299-67-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and acidic cyclization of)
 RN 114299-65-9 CAPLUS

L4 ANSWER 67 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)
 CN 1H-Pyrazole-1-propanenitrile, 3,5-diamino-4-[(4-chlorophenyl)azo]- (9C1)
 (CA INDEX NAME)

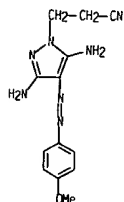


RN 114299-66-0 CAPLUS
 CN 1H-Pyrazole-1-propanenitrile, 3,5-diamino-4-[(4-methylphenyl)azo]- (9C1)
 (CA INDEX NAME)



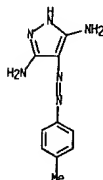
RN 114299-67-1 CAPLUS
 CN 1H-Pyrazole-1-propanenitrile, 3,5-diamino-4-[(4-methoxyphenyl)azo]- (9C1)
 (CA INDEX NAME)

L4 ANSWER 67 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



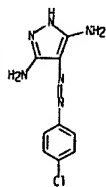
IT 3656-03-9P 3656-04-0P 6975-75-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and cyclocondensation reactions of, with unsatd. nitriles, active methylene compds., and nitrile imines)

RN 3656-03-9 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-methylphenyl)azo]- (9C1) (CA INDEX NAME)



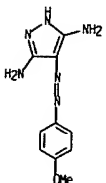
RN 3656-04-0 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]- (9C1) (CA INDEX NAME)

L4 ANSWER 67 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 6975-75-3 CAPLUS

CN 1H-Pyrazole-3,5-diazine, 4-[(4-methoxyphenyl)azo]- (9C1) (CA INDEX NAME)



L4 ANSWER 68 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1988:228404 CAPLUS

DOCUMENT NUMBER: 108:228404

TITLE: Heterocyclic thiourea derivatives as inhibitors for acid corrosion of mild steel

AUTHOR(S): Aishkel, A. G.; Hefny, M. M.; Ismail, A. R.; El-Basoumy, M. A.

CORPORATE SOURCE: Univ. Sanaa, Sanaa, Yemen

SOURCE: Corrosion Prevention & Control (1987), 34(6), 155-9

CODEN: CRPCAK; ISSN: 0010-9371

DOCUMENT TYPE: Journal

LANGUAGE: English

ABSTRACT:

A heterocyclic thiourea deriv., 1-(3-amino-4-phenylazopyrazol-5-yl)-3-benzylthiourea (I), was tested as a corrosion inhibitor for the acid pickling of mild steel. Delta 37 steel was tested in 1-4N H2SO4 contg. 1.0 to 5.0 times 10-4N I at 30.degree. and in 1.0N H2SO4 contg. no I. Galvanostatic polarization curves were made. The role of adsorption and double layer formation are cited in discussion of corrosion inhibition in pickling of mild steel.

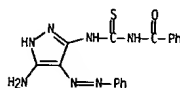
IT 70649-15-9

RL: USES (Uses)

(corrosion inhibitors, for mild steel in acid pickling)

RN 70649-15-9 CAPLUS

CN Benzamide, N-[[[5-amino-4-(phenylazo)-1H-pyrazol-3-yl]amino]thioxoethyl]- (9C1) (CA INDEX NAME)



L4 ANSWER 69 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1987:477760 CAPLUS

DOCUMENT NUMBER: 107:77760

TITLE: Reactions with heterocyclic amidines. III. Synthesis of some new pyrazolo[1,5-a]pyrimidine and pyrazolo[1,5-c]-as-triazine derivatives
Elagamey, Abdel Ghani A.; El-Taweel, Fathy M. A.; Amer, F. A.

CORPORATE SOURCE: Fac. Educ., Damietta, Egypt
SOURCE: Collection of Czechoslovak Chemical Communications (1986), 51(10), 2193-8

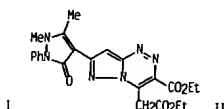
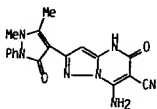
CODEN: CCCCAK; ISSN: 0366-547X

DOCUMENT TYPE: Journal

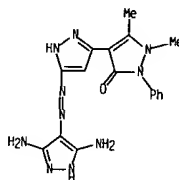
LANGUAGE: English

OTHER SOURCE(S): CASREACT 107:77760

GRAPHIC IMAGE:



L4 ANSWER 69 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



ABSTRACT:

The title compds., e.g. I and II were synthesized via the reaction of 3-antipyrinyl-5-aminopyrazole or its diazonium salt with enamionitriles, enaminesters and active methylene reagents. The action of hydrazine hydrate on the obtained polyfunctional products was also studied.

IT 109547-59-3P

RL: SPN (Synthetic preparation): PREP (Preparation) (prepn. of)

RN 109547-59-3 CAPLUS

CN [3,4'-Bi-1H-pyrazol]-3'(2'H)-one, 5-[(3,5-diamino-1H-pyrazol-4-yl)azo]-1',5'-dimethyl-2'-phenyl- (9C1) (CA INDEX NAME)

L4 ANSWER 70 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1987:121381 CAPLUS

DOCUMENT NUMBER: 106:121381

TITLE:

Dimerized ethyl cyanoacetate in heterocyclic dye synthesis: new pyridine azo dyes and tetrazole dyes
 Fahmy, Sherif M.; Mohareb, Rafat M.; Abd-All, Fatma A.
 Fac. Sci., Cairo Univ., Giza, Egypt

J. Chem. Technol. and Biotechnol. (1986), 36(9), 410-14
 CODEN: JCTBED; ISSN: 0268-2575

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 106:121381

ABSTRACT:

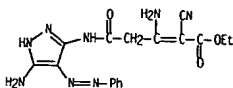
A variety of polyfunctional pyridine azo dyes and tetrazole dyes were prepared starting from Et cyanoacetate dimer [28447-79-2]. These derivs. dyed cellulose acetate, nylon 6, nylon 66, silk and wool with colors ranging from canary yellow to light violet.

IT 107140-23-8

RL: RCT (Reactant); RACT (Reactant or reagent)
 (cyclocondensation of)

RN 107140-23-8 CAPLUS

CN 2-Pentenoic acid, 3-amino-5-[[5-amino-4-(phenylazo)-1H-pyrazol-3-yl]amino]-2-cyano-5-oxo-, ethyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 71 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1986:148149 CAPLUS

DOCUMENT NUMBER: 104:148149

TITLE:

Structure of 5-amino-4-arylazopyrazoles in ethanolic aqueous media
 Fahmy, H. M.; Elmagdi, M. H.; Mahgoub, A. Elsaid;

Kaseb, A.; Ghali, E. A.

Fac. Sci., Cairo Univ., Giza, Egypt

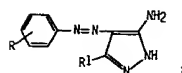
Journal of the Chinese Chemical Society (Taipei, Taiwan) (1985), 32(2), 99-104

CODEN: JCCCTAC; ISSN: 0009-4536

DOCUMENT TYPE: Journal

LANGUAGE: English

GRAPHIC IMAGE:



ABSTRACT:

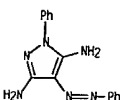
The structure and tautomerism of the title compds. (I; R = H, R1 = NH2; R1 = Ph, R = H, p-Br, p-Me, p-MeO, m-O2N) were studied by UV spectroscopy and polarog. PKa values for I were detd. and correlated with sigma values; the obtained correlation clearly reveals the weak substituent effect on the basic character of I.

IT 70649-20-6

RL: PRP (Properties)
 (acidity of)

RN 70649-20-6 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 1-phenyl-4-(phenylazo)- (9CI) (CA INDEX NAME)



IT 3656-02-8

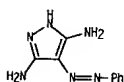
L4 ANSWER 71 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

RL: PEP (Physical, engineering or chemical process); PRP (Properties);
 PROC (Process)

(tautomerism of)

RN 3656-02-8 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)



L4 ANSWER 72 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1985:615236 CAPLUS

DOCUMENT NUMBER: 103:215236

TITLE:

Bis(dimethylamino)pyrazoles and -pyrazolium salts
 Gompper, Rudolf; Guggenberger, Rainer; Zentgraf, Rolf

Inst. Org. Chem., Univ. Muenchen, Munich, D-8000/2,

Fed. Rep. Ger.

Angewandte Chemie (1985), 97(11), 998-9

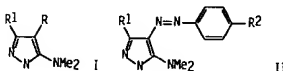
CODEN: ANCEAD; ISSN: 0044-8249

DOCUMENT TYPE: Journal

LANGUAGE: German

OTHER SOURCE(S): CASREACT 103:215236

GRAPHIC IMAGE:



ABSTRACT:

Pyrazoles I (R = H, Ph, R1 = H, NMe2) were obtained by heating Me2NCH(R)CH(R1)NMe2 with N2H4. Reaction of I (R = H, R1 = H, NMe2) with 4-R2C6H4N2BF4 (R2 = OMe, NO2) gave mixts. of the azo dyes II and their HBF4 salts. I (R = H, R1 = NMe2) also reacted with MeSS+Me2 BF4- to give I (R = SMe, R1 = NMe2) or its 3,3-bis(methylthio) analog. I (R = Ph, R1 = NMe2) was oxidized by NOBF4 to the pyrazolium salt.

IT 98635-20-2P 98635-21-3P 98635-22-4P

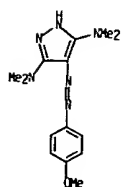
98635-23-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 98635-20-2 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-[(4-methoxyphenyl)azo]-N,N,N',N'-tetramethyl- (9CI) (CA INDEX NAME)

L4 ANSWER 72 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



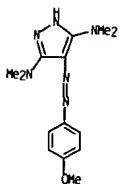
RN 98635-21-3 CAPLUS

CN 1H-Pyrazole-3,5-diazine, 4-[(4-methoxyphenyl)azo]-N,N,N',N'-tetramethyl-, mono[tetrafluoroborate(1-)] (9C1) (CA INDEX NAME)

CM 1

CRN 98635-20-2

CMF C14 H20 N6 O



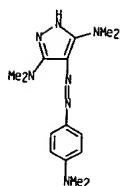
CM 2

CRN 16872-11-0

CMF B F4 . H

CCI CCS

L4 ANSWER 72 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



CM 2

CRN 16872-11-0

CMF B F4 . H

CCI CCS



● H+

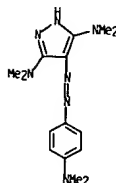
L4 ANSWER 72 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



● H+

RN 98635-22-4 CAPLUS

CN 1H-Pyrazole-3,5-diazine, 4-[(4-(dimethylamino)phenyl)azo]-N,N,N',N'-tetramethyl-, (9C1) (CA INDEX NAME)



RN 98635-23-5 CAPLUS

CN 1H-Pyrazole-3,5-diazine, 4-[(4-(dimethylamino)phenyl)azo]-N,N,N',N'-tetramethyl-, mono[tetrafluoroborate(1-)] (9C1) (CA INDEX NAME)

CM 1

CRN 98635-22-4

CMF C15 H23 N7

L4 ANSWER 73 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1985:541920 CAPLUS

DOCUMENT NUMBER: 103:141920

TITLE: Reactions with heterocyclic amidines: synthesis of several new pyrazolo[1,5-a]pyrimidines and pyrazolo[1,5-c]-as-triazines

AUTHOR(S): Sadek, Kamal Usef; Selim, Maghraby Aly; El-Maghraby, Mohamed Abdallah

CORPORATE SOURCE: Fac. Sci., Minia Univ., Minia, Egypt

SOURCE: Journal of Chemical and Engineering Data (1985),

30(4), 514-15

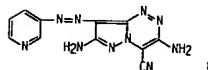
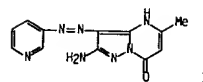
CODEN: JCEAAX; ISSN: 0021-9568

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 103:141920

GRAPHIC IMAGE:



ABSTRACT:

Several title compds., e.g., I and II were synthesized from the corresponding 3-pyrazolamine.

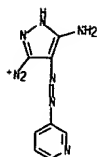
IT 97732-52-0P

RL: RCT (Reactant): PREP (Preparation): RACT (Reactant or reagent) (formation and cyclization with active methylene compds.)

RN 97732-52-0 CAPLUS

CN 1H-Pyrazole-3-diazonium, 5-amino-4-(3-pyridinylazo)-, chloride (9C1) (CA INDEX NAME)

L4 ANSWER 73 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



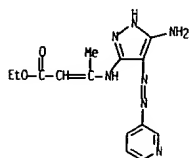
● Cl-

IT 97732-50-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and cyclization of)

RM 97732-50-8 CAPLUS

CN 2-Butenoic acid, 3-[[[5-amino-4-(3-pyridinylazo)-1H-pyrazol-3-yl]amino]-ethyl ester (9C1) (CA INDEX NAME)



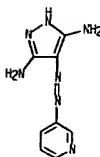
IT 97732-47-3

RL: RCT (Reactant); RACT (Reactant or reagent)
(reactions of)

RM 97732-47-3 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-(3-pyridinylazo)- (9C1) (CA INDEX NAME)

L4 ANSWER 73 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



L4 ANSWER 74 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1985:523403 CAPLUS

DOCUMENT NUMBER: 103:123403

TITLE: Studies on 3,5-diaminopyrazole derivatives

AUTHOR(S): Abed, Nosrat Mustafa; Hafez, Ebtisam Abdel Aziz;

Ibrahim, Nadia Sobhy; Mustafa, Mohamed Elsaid

CORPORATE SOURCE: Fac. Sci., Cairo Univ., Giza, Egypt

SOURCE: Monatshefte fuer Chemie (1985), 116(2), 223-8

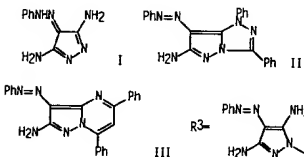
CODEN: MOCMB7; ISSN: 0026-9247

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 103:123403

GRAPHIC IMAGE:



ABSTRACT:

3,5-Diamino-4-phenylazopyrazole (I) reacted with PhCCl:NNHPh to give triazole II and with chalcone to give pyrimidine III. When I was treated with RCCl:Z (R = Ac, CONHPh; Z = NNHPh, NNHC6H4Cl-4) R3C(:Z)COR were formed. I reacted with AcNCS to give R3C(S)NHAc.

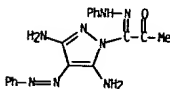
IT 93585-26-3P 97426-58-9P 97426-62-5P

97426-63-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RM 93585-26-3 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 1-[2-oxo-1-(phenylhydrazono)propyl]-4-(phenylazo)- (9C1) (CA INDEX NAME)

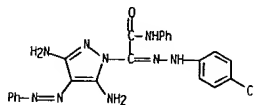


RM 97426-58-9 CAPLUS

CN 1H-Pyrazole-1-acetamide, 3,5-diamino-.alpha.-[(4-chlorophenyl)hydrazono]-N-

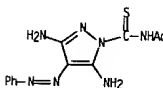
L4 ANSWER 74 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

phenyl-4-(phenylazo)- (9C1) (CA INDEX NAME)



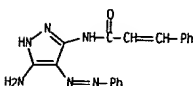
RM 97426-62-5 CAPLUS

CN Acetamide, N-[[[3,5-diamino-4-(phenylazo)-1H-pyrazol-1-yl]thioxomethyl]- (9C1) (CA INDEX NAME)

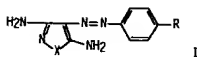


RM 97426-63-6 CAPLUS

CN 2-Propenamide, N-[5-amino-4-(phenylazo)-1H-pyrazol-3-yl]-3-phenyl- (9C1) (CA INDEX NAME)

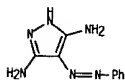


L4 ANSWER 75 OF 87 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1985:24544 CAPLUS
 DOCUMENT NUMBER: 102:24544
 TITLE: Reaction of arylazomalonitriles with hydroxylamine or hydrazine to give 3,5-diazino-4-arylo heterocycles
 AUTHOR(S): Wrubel, Juergen; Mayer, Roland
 CORPORATE SOURCE: Ingenieursh. "Ernst Thälmann", Senftenberg, DDR-7840, Ger. Dem. Rep.
 SOURCE: Zeitschrift fuer Chemie (1984), 24(7), 256-7
 CODEN: ZECEAL; ISSN: 0044-2402
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 OTHER SOURCE(S): CASREACT 102:24544
 GRAPHIC IMAGE:



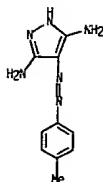
ABSTRACT:
 4-RC6H4N:NC(CN)2 (I, R = H, Me, OMe, Cl) reacted with NH2OH to give 4-RC6H4N:NC(CN)C(=NOH)NH2 which cyclized to the isoxazoles II (X = O) on prolonged treatment. Reaction of I with N2H4 gave the pyrazoles II (X = NH).

IT 3656-02-8P 3656-03-9P 3656-04-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 3656-02-8 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9C1) (CA INDEX NAME)

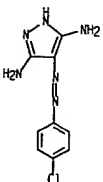


RN 3656-03-9 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-methylphenyl)azo]- (9C1) (CA INDEX NAME)

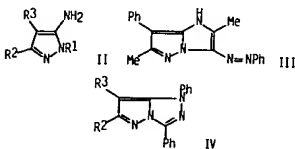
L4 ANSWER 75 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 3656-04-0 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]- (9C1) (CA INDEX NAME)



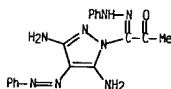
L4 ANSWER 76 OF 87 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1985:6283 CAPLUS
 DOCUMENT NUMBER: 102:6283
 TITLE: Synthesis of several new pyrazolo[5,1-c][1,2,4]triazoles, imidazo[1,2-b]pyrazoles, and pyrazolo[3,4-b]pyrazines. Reaction of nitrilimines with amino- and oxo-substituted azoles. II
 AUTHOR(S): Elgemei, Galal Eldin Hamza; Elfanham, Hassan Attia; Ghazlan, Said Ahmed Soliman; Elmagdi, Mohamed Hilmy
 CORPORATE SOURCE: Fac. Sci., Minia Univ., Minia, Egypt
 SOURCE: Bulletin of the Chemical Society of Japan (1984), 57(6), 1650-2
 CODEN: BCSJAB; ISSN: 0009-2673
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GRAPHIC IMAGE:



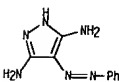
ABSTRACT:
 The reactions of RCC1:NNHPh (I; R = Ac, Ph) with aminopyrazoles, 2-aminobenzothiazole, and 2-aminopyrazine gave predominantly alkylated products for I (R = Ac), whereas cyclized and/or alkylated products were formed in the reactions of I (R = Ph). Thus, I (R = Ac) reacted with aminopyrazoles II (R1 = H; R2 = Ph, NH2; R3 = Br, N:NPh, cyano) to give 88-92% alkylation products II (R1 = C(COMe):NNHPh), but with pyrazole II (R1 = H, R2 = Me, R3 = Ph) to form 90% imidazopyrazole III. I (R = Ph) underwent cycloaddn. with II (R1 = H, R2 = Me, Ph, NH2; R3 = Ph, Br, N:NPh) to give 28-85% pyrazolotriazoles IV, whereas 80% alkylation product II (R1 = CPh:NNHPh, R2 = Ph, R3 = cyano) was formed from I (R = Ph) and II (R1 = H, R2 = Ph, R3 = cyano).

IT 93585-26-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, from nitrilimine and azole)
 RN 93585-26-3 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 1-[2-oxo-1-(phenylhydrazono)propyl]-4-(phenylazo)- (9C1) (CA INDEX NAME)

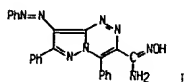
L4 ANSWER 76 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



IT 3656-02-8
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with nitrilimine)
 RN 3656-02-8 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9C1) (CA INDEX NAME)



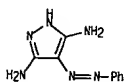
L4 ANSWER 77 OF 87 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1983:577483 CAPLUS
 DOCUMENT NUMBER: 99:177483
 TITLE: Synthesis and dyeing characteristics of some new arylazopyrazole derivatives
 AUTHOR(S): Fahsy, Sherif Mahmoud; El-Hosani, Moadouh; El-Gamal, Sherif; Elmagdi, Mohamed Hiloy
 CORPORATE SOURCE: Chem. Dep., Cairo Univ., Giza, Egypt
 SOURCE: Journal of Chemical Technology and Biotechnology (1979-1982) (1982), 32(12), 1042-8
 CODEN: JCTBDC; ISSN: 0142-0356
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 99:177483
 GRAPHIC IMAGE:



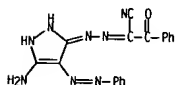
ABSTRACT:

A variety of new arylazopyrazole derivs., e.g. I [87338-75-8], were obtained by the coupling of diazotized 5-amino-4-arylazopyrazoles with active methylene reagents and treatment of the resulting products with $\text{NH}_2\text{OH}\cdot\text{HCl}$. The behavior of the newly synthesized products as acid, direct, and basic dyes on textiles is reported.

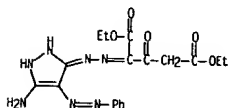
IT 3656-02-8
 RL: USES (Uses)
 (coupling of diazotized, with active methylene compds.)
 RN 3656-02-8 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)



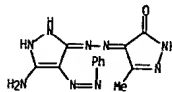
L4 ANSWER 77 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)
 IT 87338-70-3P 87338-81-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn., dyeing properties, and reaction of, with hydroxylamine hydrochloride)
 RN 87338-70-3 CAPLUS
 CN Benzenepropanenitrile, .alpha.-[[5-amino-4-(phenylazo)-1H-pyrazol-3-yl]hydrazono]-.beta.-oxo- (9CI) (CA INDEX NAME)



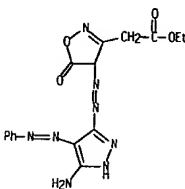
RN 87338-81-6 CAPLUS
 CN Pentanedioic acid, 2-[[[5-amino-4-(phenylazo)-1H-pyrazol-3-yl]hydrazono]-3-oxo-, diethyl ester (9CI) (CA INDEX NAME)



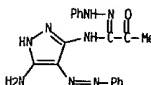
L4 ANSWER 77 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)
 IT 87338-76-9P 87338-83-8P 87338-84-9P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and dyeing properties of)
 RN 87338-76-9 CAPLUS
 CN 1H-Pyrazole-4,5-dione, 3-ethyl-, 4-[[[5-amino-4-(phenylazo)-1H-pyrazol-3-yl]hydrazono] (9CI) (CA INDEX NAME)



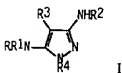
RN 87338-83-8 CAPLUS
 CN 3-Isioxazoleacetic acid, 4-[[[5-amino-4-(phenylazo)-1H-pyrazol-3-yl]azo]-4,5-dihydro-5-oxo-, ethyl ester (9CI) (CA INDEX NAME)



RN 87338-84-9 CAPLUS
 CN Propanimidic acid, N-[5-amino-4-(phenylazo)-1H-pyrazol-3-yl]-2-oxo-, 2-phenylhydrazide (9CI) (CA INDEX NAME)

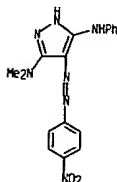


L4 ANSWER 78 OF 87 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1981:515376 CAPLUS
 DOCUMENT NUMBER: 95:115376
 TITLE: Substituted 4-nitropyrroles from nitroketenamines
 AUTHOR(S): Schaefer, H.; Gewald, K.
 CORPORATE SOURCE: Sekt. Chem., Tech. Univ. Dresden, Dresden, Ger. Dem. Rep.
 SOURCE: Journal fuer Praktische Chemie (Leipzig) (1981), 323(2), 332-6
 CODEN: JPCEAO; ISSN: 0021-8383
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 GRAPHIC IMAGE:



ABSTRACT:
 Reaction of $(\text{RR}_1\text{N})_2\text{C}(\text{NO}_2)\text{CSNHR}_2$ [$\text{R} = \text{Me}$, $\text{R}_1 = \text{H}$, Me ; $\text{RR}_1 = (\text{CH}_2)_4$; $\text{R}_2 = \text{Ph}$, Me , allyl] with MeI and N_2H_4 gave the pyrazoles I ($\text{R}_3 = \text{NO}_2$, $\text{R}_4 = \text{H}$), which upon redn. by Zn/HOAc gave I ($\text{R}_3 = \text{AcNH}$, $\text{R}_4 = \text{Ac}$). Reaction of I ($\text{R} = \text{R}_1 = \text{Me}$, $\text{R}_2 = \text{Ph}$, $\text{R}_3 = \text{NH}_2$, $\text{R}_4 = \text{H}$) with Zn/HCl gave the corresponding I ($\text{R}_3 = \text{H}$).

IT 79024-18-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 79024-18-3 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, N3,N3-dimethyl-4-[(4-nitrophenyl)azo]-N5-phenyl- (9CI) (CA INDEX NAME)



L4 ANSWER 78 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

L4 ANSWER 79 OF 87 CAPLUS COPYRIGHT 2003 ACS

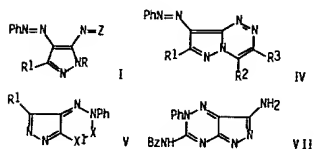
ACCESSION NUMBER: 1979:439437 CAPLUS

DOCUMENT NUMBER: 91:39437

TITLE: Reactions with cyclic azidines. III: Synthesis of some new fused pyrazole derivatives
 AUTHOR(S): Elmagdi, Mohamed Hilcy; Kandael, Ezzat Mohamed; Sadek, Kamal Usef

CORPORATE SOURCE: Fac. Sci., Cairo Univ., Giza, Egypt
 SOURCE: Zeitschrift fuer Naturforschung, Teil 8: Anorganische Chemie, Organische Chemie (1979), 34B(2), 275-9
 CODEN: ZNBAD2; ISSN: 0340-5087

DOCUMENT TYPE: Journal
 LANGUAGE: English
 GRAPHIC IMAGE:



ABSTRACT:

Diazotized I [R, R1, Z = H, OH, H2 (II); H, NH2, H2 (III)] were cyclized with active methylene compds. [AcCH2CO2Et, NCOCH2CO2Et, CH2(CN)2] to give IV (R1 as above; R2, R3 = Me, CO2Et; NH2, CO2Et; NH2, CN, resp.). Diazotized II and .beta.-naphthol gave I (R = H, R1 = OH, Z = 2-hydroxy-1-naphthylimino). Attempted addn. reaction of acrylonitrile with II and III gave V [R1, R2 = OH, NH2, CH2CH(CN), resp.]. II and III were treated with BzNCS to give I (R = H (VI), Ph (VII)); R1 = BzNHCS(NH); Z = H2). On refluxing in pyridine, VI readily cyclized to give VIII, but VII was hydrolyzed to give I (R = Ph, R1 = H2NCS(NH), Z = H2).

IT 3656-02-8

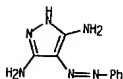
RL: RCT (Reactant); RACT (Reactant or reagent)

(diazotized, cyclization of, with active methylene compds., pyrazolotriazines from)

RN 3656-02-8 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)

L4 ANSWER 79 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

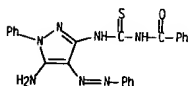


IT 70649-16-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and hydrolysis of)

RN 70649-16-0 CAPLUS

CN Benzamide, N-[[[5-amino-1-phenyl-4-(phenylazo)-1H-pyrazol-3-yl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)

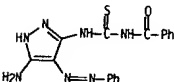


IT 70649-15-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and thermal cyclization of, pyrazolotriazine deriv. from)

RN 70649-15-9 CAPLUS

CN Benzamide, N-[[[5-amino-4-(phenylazo)-1H-pyrazol-3-yl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)



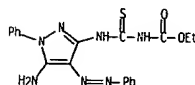
IT 70649-17-1P 70649-19-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 70649-17-1 CAPLUS

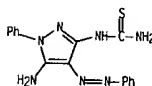
CN Carboxylic acid, [[[[5-amino-1-phenyl-4-(phenylazo)-1H-pyrazol-3-yl]amino]thioxomethyl]-, ethyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 79 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 70649-19-3 CAPLUS

CN Thiourea, [5-amino-1-phenyl-4-(phenylazo)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)



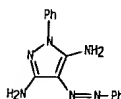
IT 70649-20-6

RL: RCT (Reactant); RACT (Reactant or reagent)

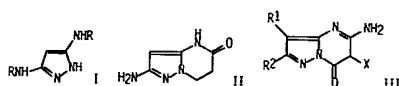
(reaction of, with ethoxycarbonyl isothiocyanate)

RN 70649-20-6 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 1-phenyl-4-(phenylazo)- (9CI) (CA INDEX NAME)

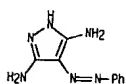


L4 ANSWER 80 OF 87 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1978:597457 CAPLUS
 DOCUMENT NUMBER: 89:197457
 TITLE: Pyridine derivatives and related compounds. VIII.
 Routes for the synthesis of 3,5-diazinopyrazoles,
 2-aminopyrazolo[1,5-a]pyridines and
 5-aminopyrazolo[1,5-a]pyridines
 AUTHOR(S): Elmagdi, Mohamed Helmy; Kandeel, Ezzat Mohamed; Zayed,
 Ezzat Mohamed; Kandil, Zaghoul El-Shahat
 CORPORATE SOURCE: Fac. Sci., Cairo Univ., Giza, Egypt
 SOURCE: Journal fuer Praktische Chemie (Leipzig) (1978),
 320(4), 533-8
 CODEN: JPCEAD; ISSN: 0021-8383
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GRAPHIC IMAGE:

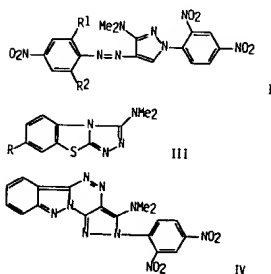


ABSTRACT:
 Diaminopyrazole I (R = H) was obtained in 88% yield by treatment of the
 4-phenylazo deriv. with H₂SO₄ at 150 degree. Subsequent acylation by RCO₂H
 gave 90% I (R = Ac, EtCO, PrCO). Cyclocondensation of I (R = H) with
 CH₂:CHCO₂Et gave 55% II, which could also be obtained from 3,5-diamino-1-
 pyrazolepropanitrile by cyclization with concd. H₂SO₄ at room temp. Addnl.
 obtained were 70% III (R₁ = H, CN, Ph; R₂ = H, Ph, X = CO₂Et, CN).

IT 3656-02-8
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (removal of phenylazo group from)
 RN 3656-02-8 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)



L4 ANSWER 81 OF 87 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1978:443341 CAPLUS
 DOCUMENT NUMBER: 89:43341
 TITLE: Synthesis of dimethylamino derivatives of some
 condensed heterocycles based on
 dimethylphosphonium chloride
 AUTHOR(S): Gorelik, M. V.; Kuleshova, N. D.; Arinich, L. V.
 CORPORATE SOURCE: Nauchno-Issled. Inst. Org. Poluprod. Krasitelei,
 Moscow, USSR
 SOURCE: Khimiya Geterotsiklichesikh Soedinenii (1978), (3),
 403-6
 CODEN: XGSSAQ; ISSN: 0453-8234
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 GRAPHIC IMAGE:

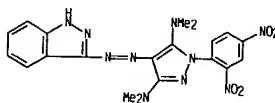


ABSTRACT:
 Pyrazoles I (R₁ = H, R₂ = H, Cl, CN; R₁ = R₂ = Cl) were obtained in 72-98%
 yields in 3 steps from Me₂NH:Cl₂Cl- (II) by treatment with AcOMe₂, cyclization
 with 2,4-(O₂N)₂CH₂SH₂, and coupling with the corresponding diazonium compd.
 Cyclization of II with 2-hydrazinobenothiazoles gave 82 and 100% III (R = H,
 OEt). Addnl. obtained were tautomeric IV.

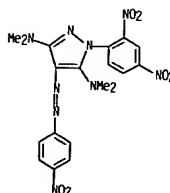
IT 66751-45-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (prepn. and cyclization of)
 RN 66751-45-9 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 1-(2,4-dinitrophenyl)-4-(1H-indazol-3-ylazo)-

L4 ANSWER 80 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

L4 ANSWER 81 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)
 N,N,N',N'-tetramethyl- (9CI) (CA INDEX NAME)

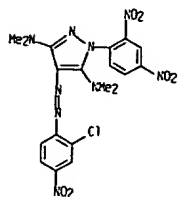


IT 66751-46-0P 66751-47-1P 66751-48-2P
 66751-49-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 66751-46-0 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 1-(2,4-dinitrophenyl)-N,N,N',N'-tetramethyl-4-[(4-
 nitrophenyl)azo]- (9CI) (CA INDEX NAME)

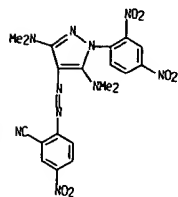


RN 66751-47-1 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(2-chloro-4-nitrophenyl)azo]-1-(2,4-
 dinitrophenyl)-N,N,N',N'-tetramethyl- (9CI) (CA INDEX NAME)

L4 ANSWER 81 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

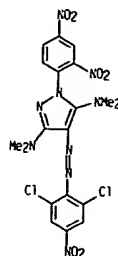


RN 66751-48-2 CAPLUS
 CN Benzonitrile, 2-[[[3,5-bis(dimethylamino)-1-(2,4-dinitrophenyl)-1H-pyrazol-4-yl]azo]-5-nitro- (9C1) (CA INDEX NAME)



RN 66751-49-3 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[[2,6-dichloro-4-nitrophenyl]azo]-1-(2,4-dinitrophenyl)-N,N,N',N'-tetramethyl- (9C1) (CA INDEX NAME)

L4 ANSWER 81 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



L4 ANSWER 82 OF 87 CAPLUS COPYRIGHT 2003 ACS

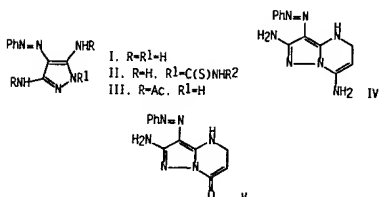
ACCESSION NUMBER: 1977-423143 CAPLUS

DOCUMENT NUMBER: 87-23143

TITLE: Studies on 3,5-diamino pyrazoles: chemical behavior of 4-phenylazo-3,5-diaminopyrazoles
 AUTHOR(S): Elnagdi, Mohamed Hilmy; Kandeel, Ezzat Mohamed; Elmoghayar, Mohamed Rifaat Hamza

CORPORATE SOURCE: Fac. Sci., Cairo Univ., Giza, Egypt
 SOURCE: Zeitschrift fuer Naturforschung, Teil B: Anorganische Chemie, Organische Chemie (1977), 32B(3), 307-10
 CODEN: ZNBAD2; ISSN: 0340-5087

DOCUMENT TYPE: Journal
 LANGUAGE: English
 GRAPHIC IMAGE:



ABSTRACT:

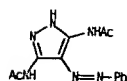
The pyrazole I was treated with R2NCS (R2 = PhCH2, Me) in Me2CO, CH2:CHCN in HOAc, or CH2:CHCO2Et in AcOH to give II-V, resp.

IT 62679-01-0P 63052-05-1P 63052-06-2P
 63052-07-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 62679-01-0 CAPLUS

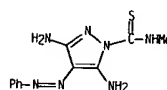
CN Acetamide, N,N'-[4-(phenylazo)-1H-pyrazole-3,5-diyl]bis- (9C1) (CA INDEX NAME)



L4 ANSWER 82 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

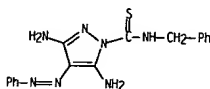
RN 63052-05-1 CAPLUS

CN 1H-Pyrazole-1-carbothioamide, 3,5-diamino-N-methyl-4-(phenylazo)- (9C1)
 (CA INDEX NAME)



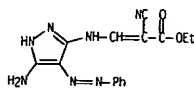
RN 63052-06-2 CAPLUS

CN 1H-Pyrazole-1-carbothioamide, 3,5-diamino-4-(phenylazo)-N-(phenylmethyl)- (9C1) (CA INDEX NAME)



RN 63052-07-3 CAPLUS

CN 2-Propenoic acid, 3-[[[5-amino-4-(phenylazo)-1H-pyrazol-3-yl]amino]-2-cyano-ethyl] ester (9C1) (CA INDEX NAME)

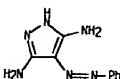


IT 3656-02-8

RL: RCT (Reactant); RACT (Reactant or reagent)
 (reactions of, with isothiocyanates, acrylonitrile and analogs)

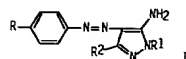
RN 3656-02-8 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9C1) (CA INDEX NAME)



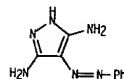
L4 ANSWER 82 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

L4 ANSWER 83 OF 87 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1977:189793 CAPLUS
 DOCUMENT NUMBER: 86:189793
 TITLE: Pyridine derivatives and related compounds. VI. A novel synthesis of 3,5-diacetamidopyrazole and of 2-aminopyrazolo[1,5-a]pyridines
 AUTHOR(S): Elmagdi, Mohamed Hilmy; Kandeel, Ezzat Mohamed; Zayed, Ezzat Mohamed; Kandil, Zaghoul Elshahat
 CORPORATE SOURCE: Fac. Sci., Cairo Univ., Cairo, Egypt
 SOURCE: Journal of Heterocyclic Chemistry (1977), 14(1), 155-7
 CODEN: JHTCAD; ISSN: 0022-152X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GRAPHIC IMAGE:

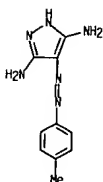


ABSTRACT:
 3,5-Diacetamidopyrazole was prepd. via arylazo group decoupling from 3,5-diamino-4-arylazopyrazoles I (R = H, Me, MeO, Cl, Br, O2N; R1 = H; R2 = H2N) by the action of HOAc-H2SO4. Arylazo group removal was also effected when 2-amino-5-methyl-7-oxo-6,7-dihydro-3-phenylazopyrazolo[1,5-a]pyrimidine was similarly treated. The 2-aminopyrazolo[1,5-a]pyrimidine deriv. was obtained in this case. Under the same exptl. conditions I (R = H; R1 = H, R2 = Ph, OH; R1 = R2 = Ph) were recovered almost unaffected.

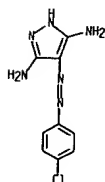
IT 3656-02-8 3656-03-9 3656-04-0
 6975-75-3 62679-03-2 62679-04-3
 RL: PROC (Process)
 (arylazo group removal of)
 RN 3656-02-8 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9CI) (CA INDEX NAME)



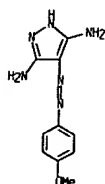
L4 ANSWER 83 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)
 RN 3656-03-9 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-methylphenyl)azo]- (9CI) (CA INDEX NAME)



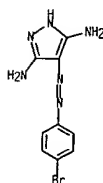
RN 3656-04-0 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]- (9CI) (CA INDEX NAME)



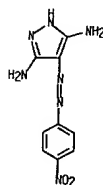
RN 6975-75-3 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-methoxyphenyl)azo]- (9CI) (CA INDEX NAME)



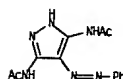
L4 ANSWER 83 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)
 RN 62679-03-2 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-bromophenyl)azo]- (9CI) (CA INDEX NAME)



RN 62679-04-3 CAPLUS
 CN 1H-Pyrazole-3,5-diamine, 4-[(4-nitrophenyl)azo]- (9CI) (CA INDEX NAME)



IT 62679-01-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and azo decoupling of)
 RN 62679-01-0 CAPLUS
 CN Acetamide, N,N'-[4-(phenylazo)-1H-pyrazole-3,5-diyl]bis- (9CI) (CA INDEX NAME)



L4 ANSWER 83 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)

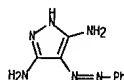
L4 ANSWER 84 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1976:30995 CAPLUS
 DOCUMENT NUMBER: 84:30995
 TITLE: Pyridine derivatives and related compounds. II. Synthesis of some derivatives of pyrido[1,2:2',3']pyrazolo[1,5-a]pyridines, a new ring system
 AUTHOR(S): Elmagdi, Mohamed H.; Sallam, Mohamed M. M.; Ilias, Mohamed A. M.
 CORPORATE SOURCE: Fac. Sci., Cairo Univ., Giza, Egypt
 SOURCE: Helvetica Chimica Acta (1975), 58(7), 1944-9
 CODEN: HCAVAV; ISSN: 0018-019X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GRAPHIC IMAGE: For diagram(s), see printed CA Issue.
 ABSTRACT: Pyrazolopyridines I (R = H, 2-Me, 3-Me; R1R2 = Me:CHOMe:N, COCH2OMe:N, CH2CH2CONH, CH2CHMeCONH) were prepd. by condensing I (R1 = H, R2 = NH2) with Ac2CH2, AcCH2CO2Et, CH2:CHCO2Me, CH2:CHCO2Me, or CH2:CHMeCN. The structure of I (R = H, R1R2 = CH2CH2CONH) was confirmed by treating H2NNHCH2CHMeCN with PhN:NCH(CN)2 and cyclizing I (R = H, R1 = CH2CHMeCN, R2 = NH2). I (R1R2 = Me:CHOMe:N) added CH2:CHCN to give II [R3R4 = C(NH2):CHCH2], which oxidized in AcOH-HCl to II (R3R4 = COCH2CH2). Similar reaction of I (R1R2 = CH2CH2CONH) with AcCH2CO2Et gave III, which could, however, not be obtained from I (R1R2 = COCH2OMe:N) and CH2:CHCN.

IT 3656-02-8 57770-59-9 57770-60-2
 RL: RCT (Reactant): RACT (Reactant or reagent)
 (condensation of, with acetylacetone)

RN 3656-02-8 CAPLUS

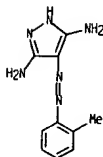
CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9C1) (CA INDEX NAME)



RN 57770-59-9 CAPLUS

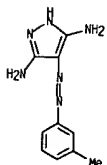
CN 1H-Pyrazole-3,5-diamine, 4-[(2-methylphenyl)azo]- (9C1) (CA INDEX NAME)

L4 ANSWER 84 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 57770-60-2 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-[(3-methylphenyl)azo]- (9C1) (CA INDEX NAME)

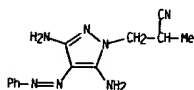


IT 57770-72-6P

RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT
 (Reactant or reagent)
 (prepn. and cyclization of)

RN 57770-72-6 CAPLUS

CN 1H-Pyrazole-1-propanenitrile, 3,5-diamino-.alpha.-methyl-4-(phenylazo)- (9C1) (CA INDEX NAME)



L4 ANSWER 85 OF 87 CAPLUS COPYRIGHT 2003 ACS

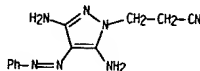
ACCESSION NUMBER: 1975:57604 CAPLUS
 DOCUMENT NUMBER: 82:57604
 TITLE: Reaction with .beta.-cyanoethylhydrazine. I. Route for the preparation of pyrazolo[1,5-a]pyrimidines and pyrrolo[1,2-b]pyrazoles
 AUTHOR(S): Elmagdi, M. Helmy
 CORPORATE SOURCE: Dep. Chem., Cairo Univ., Cairo, Egypt
 SOURCE: Tetrahedron (1974), 30(16), 2791-6
 CODEN: TETRAV; ISSN: 0040-4020
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GRAPHIC IMAGE: For diagram(s), see printed CA Issue.
 ABSTRACT: NC(CH2)2NH:NH2 (I) with CH2(CN)2 gave pyrazole II. Cyclization of II in alkali and acid gave pyrimidine III and pyrimidine IV, resp. I with PhN:NCH(CN)2 and EtOCH:C(CN)2 gave pyrazoles V and VI, resp. which cyclized to VII and VIII, resp.

IT 54761-73-8P

RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT
 (Reactant or reagent)
 (prepn. and cyclization of)

RN 54761-73-8 CAPLUS

CN 1H-Pyrazole-1-propanenitrile, 3,5-diamino-4-(phenylazo)- (9C1) (CA INDEX NAME)



L4 ANSWER 86 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1965:483741 CAPLUS

DOCUMENT NUMBER: 63:83741

ORIGINAL REFERENCE NO.: 63:15467d-e

TITLE: Attempts to discover new fungistats. VIII.
Antimicrobial activity of new compounds containing an
arylazomethylene group

AUTHOR(S): Zsolnai, Tibor

CORPORATE SOURCE: Univ. Debrecen, Hung.

SOURCE: Biochemical Pharmacology (1965), 14(9), 1325-62

CODEN: BCPCA6; ISSN: 0006-2952

DOCUMENT TYPE: Journal

LANGUAGE: German

ABSTRACT:

cf. CA 60, 13811h. The bacteriostatic fungistatic, tuberculostatic, trichomonastatic, and ascarido static effects of the arylazo derivs. of Me. Et. benzyl-, and 4-chlorobenzylmalononitrile, benzoylacetone, nitromethane, and dicyandiamine, and of their condensation products with carbonyl reagents, and their acute toxicity on rats, is reported. In the series of compds. contg. an arylazomethylene group the antimicrobial effect is not connected with the presence of the $RN:NC(CN)2R'$ structure, but it is related in a very specific manner to its tautomeric form (when $R' = H$), i.e. to the presence of the group $RHN:C(CN)2$. Any change in this structural element decreased or destroyed the antimicrobial effect.

IT 3656-02-8, Pyrazole, 3,5-diamino-4-(phenylazo)- 3656-03-9

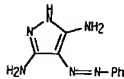
Pyrazole, 3,5-diamino-4-(p-tolylazo)- 3656-04-0, Pyrazole,

3,5-diamino-4-[(p-chlorophenyl)azo]-

(pesticidal activity and toxicology of)

RN 3656-02-8 CAPLUS

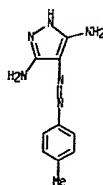
CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9C1) (CA INDEX NAME)



RN 3656-03-9 CAPLUS

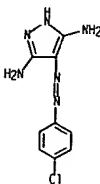
CN 1H-Pyrazole-3,5-diamine, 4-[(4-methylphenyl)azo]- (9C1) (CA INDEX NAME)

L4 ANSWER 86 OF 87 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 3656-04-0 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-[(4-chlorophenyl)azo]- (9C1) (CA INDEX NAME)



L4 ANSWER 87 OF 87 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1959:34819 CAPLUS

DOCUMENT NUMBER: 53:34819

ORIGINAL REFERENCE NO.: 53:6238a-d

TITLE: Some synthetic studies on purines and related
heterocycles

AUTHOR(S): Taylor, E. C.; Osden, T. S.; Richter, E.; Vogl, O.

CORPORATE SOURCE: Princeton Univ., Princeton, NJ

SOURCE: Ciba Foundation Symposium, Chem. and Biol. Purines

(1957) 20-33

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

ABSTRACT:

cf. C.A. 51, 2811c. $H_2NCOCH(NH_2)C(:NH)NH_2, 2HCl$ (I) was converted to hypoxanthine in 85% yield by heating with $HC(OEt)_3$ and Ac_2O . Similarly, I and $MeC(OEt)_3$ gave 2,8-dimethylhypoxanthine, and with $EtC(OEt)_3$ and Ac_2O gave 2,8-diethylhypoxanthine. Adenine was prepd. by cyclization of $H_2NCH(C(:NH)NH_2)2, 2HCl$ (II) with $HC(OEt)_3$ in $MeCN$. With $MeC(OEt)_3$, II provided 2,8-dimethyladenine, whereas 2,8-diethyladenine was formed with $EtC(OEt)_3$. Treatment of I with one molar equiv. of $HONH_2$ gave a mixt. of $H_2NCOCH(NH_2)C(:NH)NH_2$ and $H_2NC(:NH)CH(NH_2)CONH_2$, which on cyclization with $HC(OEt)_3$ in Ac_2O provided a mixt. believed to contain hypoxanthine 1-oxide and hypoxanthine 9-(or 3-)oxide. Condensation of 3-hydroxy-4,5-diaminopyrazole (III) with glyoxal gave 3-hydroxypyrazolo[3,4-b]pyrazine, a structural isomer of hypoxanthine. For this reaction, III was prepd. by treating NCH_2CO_2Et with PhN_2Cl to form $PhN_2CH(CN)CO_2Et$ which on treatment with NH_4 yielded 3-hydroxy-4-phenylazo-5-aminopyrazole. This, on reductive formylation followed by mild acid hydrolysis, provided III. $PhN_2CH(CN)_2$ reacted with NH_4 to form 3,5-diamino-4-phenylazopyrazole, which on reductive formylation gave a product readily converted by dil. H_2SO_4 to the sulfate of 3,4,5-triaminopyrazole (IV). IV with α, β -dicarbonyl compds. provided 3-aminopyrazolo[3,4-b]pyrazines (structural isomers of adenine). Reduction of 3-hydroxypyrazolo[3,4-b]pyrazines with Raney Ni in refluxing $EtOH$ provided 2-aminopyrazine-3-carboxamides in high yield.

IT 3656-02-8, Pyrazole, 3,5-diamino-4-phenylazo-

(prepn. of)

RN 3656-02-8 CAPLUS

CN 1H-Pyrazole-3,5-diamine, 4-(phenylazo)- (9C1) (CA INDEX NAME)

